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Agriculture

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FOREWORD

This publication is the twenty-seventh in the Yearbook series initiated in 1963. The same format, which includes recent and historical data from 1955, has been continued for the convenience of users. In addition, this issue contains estimates and data converted to the International Standards. The metric conversion factors used are shown in the Sources and Methods Section. Minor changes are also made annually whenever new or more detailed information becomes available. Statistics published in this issue of the Yearbook are based on available information as of July 31, 1990. Any revisions to the 1989 data published will be incorporated in the 1990 issue of this publication. Revisions in previous years' estimates are made as more recent and more accurate data are received.

The census division and crop district boundaries were changed in 1976, and the first small area estimates using new boundaries were made in 1977. These estimates by crop districts are made annually for: a) seeded area and production of wheat, oats, barley, flaxseed, canola (rapeseed) and hay; and b) cattle and hog numbers on farms, as of July 1.

Cooperation between Statistics Canada and Manitoba Agriculture is maintained to secure the best possible agricultural statistics. The assistance of many contributors of information received from other government departments, farm businesses, farmer organizations and farmers is acknowledged. Sincere appreciation is extended to the secretarial staff of the Economics Branch for typing, collating and proofing the manuscript.

The development, compilation and assembly of all material was done by Errol Lewis, Sr. Statistician of the Economics Branch, Manitoba Agriculture.

Suggestions for improving the content of the manuscript can be sent to the Senior Statistician, Statistics Section, Economics Branch, 903 Norquay Building, Winnipeg, Manitoba, R3C 0P8. PH: (204) 945-3501.

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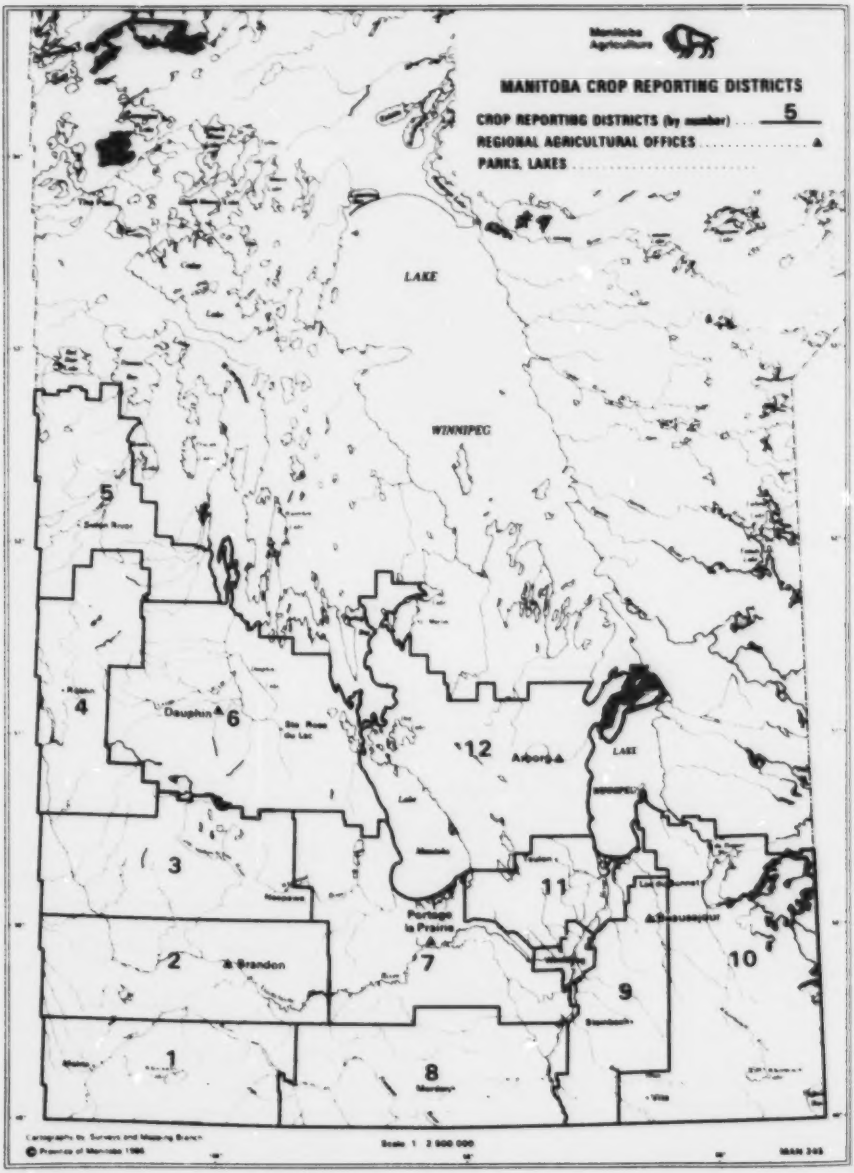
Manitoba Agriculture
MANITOBA CROP REPORTING DISTRICTS
CROP REPORTING DISTRICTS (by number) 5
REGIONAL AGRICULTURAL OFFICES ▲
PARKS, LAKES
LAKE
WINNIPEG
Dauphin
Arborg
LAKE
Portage la Prairie
Brandon
Steinbach
1
2
3
4
5
6
7
8
9
10
11
12

TABLE 1: Manitoba Agriculture in Perspective - Relationship to Canadian Agriculture

Quantity	Canada Quantity	Manitoba of Canada	Per cent
	- thousand tonnes -		
Crop Production 1989			
Wheat (all)	24 382 9	4 009 1	16 4
Oats	3 548 9	339 0	9 6
Barley	11 672 4	1 546 0	13 2
Flaxseed	530 6	236 0	44 5
Canola (Rapeseed)	3 057 6	399 0	13 0
	- thousand bushels -		
Wheat (all)	895,910 0	147,300 0	16 4
Oats	230,180 0	22,000 0	9 6
Barley	536,090 0	71,000 0	13 2
Flaxseed	20,900 0	9,300 0	44 5
Canola (Rapeseed)	134,800 0	17,600 0	13 0
	- 000 -		
Livestock and Poultry Production, 1986			
Cattle and Calves, June 3	11,997,608	1,114,720	9 3
Sheep and Lambs, June 3	700,935	24,693	3 5
Hogs, June 3	9,756,569	1,071,195	11 0
Egg Production, June 3 (doz.)[1]	443,132	49,251	11 1
Milk and Cream Sales (kl)	7 283 222	291 317	4 0
	Number		
Livestock Slaughterings, 1989			
Slaughter Cattle and Calves	3,374,270	125,494	3 7
Hogs (Slaughterings)	14,898,961	1,898,187	12 7
Sheep and Lambs	250,717	4,751	1 9
	- thousand dollars -		
Farm Income, 1989			
Total Income, 1989	22,659,491	2,115,649	9 3
Total Net Expenses, 1989	18,560,475	1,820,355	9 8
Realized Net Income, 1989	4,099,016	295,294	7 2
Resources (1986 Census Farms)			
Land in Farms (hectares)	67 825 756	7 740 226	11 4
Improved Land (hectares)	45 009 991	5 403 077	11 7
Land in Farms (acres)	167,601,113	19,126,517	11 4
Improved Land (acres)	113,693,178	13,351,296	11 7
Farm Numbers	293,089	27,336	9 3
Farm Population	930,730	86,505	9 3
Tractors on Farms	728,074	73,945	10 2
	- thousand dollars -		
Capital Investment, 1989	110,852,614	9,178,105	8 3
Land and Buildings	79,778,947	5,971,522	7 5
Machinery and Equipment	21,029,556	2,345,278	11 2
Livestock and Poultry	10,044,111	861,305	8 6

[1]This value reported in the 1986 Census output is for 1985.

1989 VALUE OF FARM PRODUCTION

Manitoba total value of agricultural production in 1989 was estimated at $2,071.3 million. This represented a 17.5 per cent increase above the revised 1988 value of $1,762.4 million and 10.7 per cent more than the revised 1987 value of $1,871.6 million. The value of crop production was $1,307.3 million, 36.0 per cent more than in 1988 and 20.8 per cent more than the 1987 value of $1,081.8 million. Higher production in most instances was enough to counteract the decline in prices of major crops.

Livestock production was valued at $738.9 million, 8.4 per cent less than 1988. In this instance, lower prices for cattle, sheep and lambs combined with lowered marketings were buffered by increased poultry and dairy receipts.

TABLE 2: Gross Value of Agricultural Production (million dollars)

	1987	1988[R]	1989[P]
Crops	1,081.8	960.9	1,307.3
Livestock and Products	755.5	772.2	738.9
Honey & Wax[1]	9.9	8.4	7.7
Other (Fur, Wildlife, PMU, Forest, etc.)	24.4	20.9	17.4
Total	**1,871.6**	**1,762.4**	**2,071.3**

[1]Includes values estimated for alfalfa leafcutter bees.
R = Revised. P = Preliminary.

TABLE 3A: 1989 Summary of Crop Production

Crop	Hectares (000)	Yield Per Hectare (tonnes)	Production (000 tonnes)	Farm Value Per Tonne $	Farm Value Total ($000)
Wheat	2 094.1	1.91	4 009.1	141.00	565,283
Oats	202.0	1.68	339.0	125.00	42,375
Barley	647.0	2.39	1 546.0	105.00	162,330
Flaxseed	304.0	0.78	236.0	335.00	79,060
Canola (Rapeseed)	465.0	0.86	399.0	277.00	110,523
Rye	93.1	2.13	198.0	83.00	16,434
Mixed Grains	28.3	2.16	61.2	111.00	6,793
Grain Corn	34.4	3.17	109.0	124.00	13,516
Field Peas	52.6	1.50	78.9	187.00	14,754
Buckwheat	20.2	0.72	14.6	344.00	5,022
Sunflowerseed	46.5	1.35	63.0	243.00	15,309
Mustard Seed	12.1	0.75	9.1	309.00	2,812
Canary Seed	16.2	1.40	22.7	265.00	6,016
Lentils	12.1	1.24	15.0	419.00	6,285
Forage Seeds	—	—	—	—	11,255
Other Special Crops	—	—	—	—	6,100
All Tame Hay	647.0	3.93	2 540.0	52.00	132,080
Silage Corn	12.1	18.80	227.0	14.00	3,178
Sugar Beets	10.5	31.35	329.0	44.00**	14,474
Horticulture					
Potatoes	18.4	16.95	307.2	147.29	45,239
Vegetables	1.4	—	—	—	5,800
Fruits	—	—	—	—	3,750
Greenhouse and Mushrooms	—	—	—	—	15,300
Nursery Products and Sod	—	—	—	—	11,750
Miscellaneous	—	—	—	—	4,500
Other Crops	—	—	—	—	7,400
TOTAL	—	—	—	—	**1,307,338**

NOTE: Numbers may not all add due to rounding and/or metric conversion.

**Value including deficiency payments, if any.

SOURCE: Statistics Canada, Manitoba Agriculture.

TABLE 3B: 1989 Summary of Crop Production

	Acres (000)	Yield Per Acres (bushels)	Production (000 bushels)	Farm Value Per Tonne $	Farm Value Total ($000)
Wheat	5,175.0	28.4	147,300.0	3.84	565,283
Oats	500.0	44.0	22,000.0	1.93	42,375
Barley	1,600.0	44.4	71,000.0	2.29	162,330
Flaxseed	750.0	12.4	9,300.0	8.50	79,060
Canola (Rapeseed)	1,150.0	15.3	17,600.0	6.28	110,523
Rye	230.0	33.9	7,800.0	2.11	16,434
Mixed Grains	70.0	42.9	3,000.0	2.26	6,793
Grain Corn	85.0	50.6	4,300.0	3.14	13,516
Field Peas	130.0	22.3	2,900.0	5.09	14,754
Buckwheat	50.0	13.4	670.0	7.50	5,022
		(pounds)	(000 pounds)	(per ton)	
Sunflowerseed	115.0	1,209	139,000.0	220.27	15,309
Mustard Seed	30.0	667	20,000.0	281.20	2,812
Canary Seed	40.0	1,250	50,000.0	240.64	6,016
Lentils	30.0	1,100	33,000.0	380.91	6,285
Forage Seeds	—	—	—	—	11,255
Other Special Crops	—	—	—	—	6,100
		(tons)	(000 tons)	(per ton)	
All Tame Hay	1,600.0	1.75	2,800.0	47.17	132,080
Silage Corn	30.0	8.33	250.0	12.71	3,178
Sugar Beets	25.9	13.98	362.6	39.92**	14,474
Horticulture					
Potatoes	44.8	7.56	338.7	133.57	45,239
Vegetables	3.5	—	—	—	5,800
Fruits	—	—	—	—	3,750
Greenhouse and Mushrooms	—	—	—	—	15,300
Nursery Products and Sod	—	—	—	—	11,750
Miscellaneous	—	—	—	—	4,500
Other Crops	—	—	—	—	7,400
TOTAL	—	—	—	—	**1,307,338**

NOTE: Numbers may not all add due to rounding/metric conversion.

**Value including deficiency payments, if any.

SOURCE: Statistics Canada; Manitoba Agriculture.

TABLE 4: 1989 Summary of Livestock Production

	Number (000)	Value Per Unit $	Total Value ($000)
CATTLE:			
Commercial Marketings (including exports)	378.3		
Inventory Change	0.0		
Local Slaughterings	7.7		
TOTAL CATTLE	**386.0**	**634.00**	**245,000**
HOGS:			
Commercial Marketings (including exports)	2,177.7		
Inventory Change	(30.0)		
Local Slaughterings	21.3		
TOTAL HOGS	**2,169.0**	**101.00**	**219,000**
SHEEP AND LAMBS:			
Commercial Marketings	20,300		1,148
Wool - kilograms	51,700		76
- pounds	114,000		
TOTAL SHEEP & LAMBS & WOOL			**1,224**
DAIRY PRODUCTS:			
Milk Equivalent - kilolitres	301 665		131,825
Supplementary Payments			10,624
TOTAL DAIRY PRODUCTS			**142,449**
POULTRY:			
Eggs (dozens)	54,306		62,582
Meat			59,550
Other			9,085
TOTAL POULTRY			131,217
Other Livestock			31.6
TOTAL LIVESTOCK PRODUCTION			738,921

SOURCE: Statistics Canada, Agriculture Canada, Manitoba Agriculture.

TABLE 5: Farm Input Price Indexes (1981 = 100), Western Canada

	1987	1988	1989*
Total Farm Input	**109.6**	**111.2**	**116.6**
Buildings and Fencing	126.7	127.1	140.5
Machinery and Motor Vehicles	115.4	116.3	120.9
Crop Production	94.6	93.7	106.2
Animal Production	119.6	121.8	115.1
Supplies and Services	124.5	126.6	135.2
Hired Farm Labour	123.8	128.8	142.7
Property Taxes	146.3	152.5	147.7
Interest	75.7	79.9	95.4
Farm Rent	82.4	80.7	90.8

*Canada.

SOURCE: Statistics Canada, Cat. No. 62-004, Fourth Quarter, 1989.

TABLE 6: Farm Product Price Indexes (1986 = 100), Manitoba

	1987	1988	1989
Total Index	**95.1**	**106.2**	**113.9**
Total Crops	**87.7**	**115.6**	**129.7**
Cereals	86.8	113.2	129.6
Oilseeds	83.5	130.5	135.8
All Other Crops[1]	103.3	103.3	117.6
Total Livestock and Produce	**102.9**	**96.3**	**97.2**
Cattle and Calves	110.9	106.8	105.5
Hogs	97.7	74.6	72.4
Poultry	95.2	97.9	105.9
Eggs	92.0	99.2	112.4
Dairy	98.8	104.1	109.1
Other Livestock and Produce[2]	101.0	91.3	80.9

[1]Includes fruits, vegetables (including potatoes), sugar beets and sunflowerseed.
[2]Includes lambs, honey and fur.

SOURCE: Statistics Canada, Cat. No. 62-003

TABLE 7: Manitoba Farm Cash Receipts, 1987-1989

	1987	1988	1989
	thousands of dollars		
Wheat - Excluding Durum	377,841	368,191	311,174
Wheat - Excluding Durum, CWB Payments[1]	0	44,142	71,234
Durum wheat	24,475	22,474	21,700
Durum wheat, CWB Payments[1]	2,940	5,212	6,457
Total Wheat	**402,316**	**390,665**	**332,874**
Total Wheat, CWB	**2,940**	**49,354**	**77,691**
Oats	6,919	11,579	10,772
Oats, CWB Payments[1]	613	1,055	1,974
Barley	62,055	60,395	77,886
Barley, CWB Payments[1]	1,863	2,669	7,925
Deferred Grain Receipts	-64,580	-92,505	-71,880
Liquidation of Deferred Grain Receipts	62,435	64,580	92,505
Rye	2,850	5,048	7,659
Flaxseed	62,689	71,940	75,187
Canola	108,806	146,290	123,086
Corn	6,446	10,285	10,552
Sugar Beets	8,787	9,383	13,783
Potatoes	48,315	56,335	42,070
Vegetables	14,737	14,915	15,095
Floriculture and Nursery	9,417	10,297	11,030
Mustard Seed	1,446	1,989	2,379
Sunflowerseed	7,497	9,588	13,587
Lentils	8,365	2,312	5,330
Canary Seed	2,391	1,836	5,400
Dry Peas	24,235	14,419	12,541
Forage and Grass Seed	12,579	14,222	8,458
Hay and Clover	665	921	2,328
Forest Products	1,491	1,516	1,566
Miscellaneous Crops	11,134	12,028	12,318
TOTAL CROPS	**806,411**	**871,116**	**892,116**
Cattle	268,230	242,051	225,959
Calves	46,783	48,854	46,196
Hogs	253,608	221,070	228,741
Sheep	81	191	94
Lambs	1,839	1,526	1,592
Dairy Products	110,246	118,185	121,201
Hens and Chickens	35,470	36,490	38,465
Turkeys	14,427	14,688	15,691
Eggs	45,037	48,949	55,289
Wool	47	80	73
Honey	8,424	7,308	6,140
Furs	2,546	1,904	1,490
Miscellaneous Livestock	21,243	20,015	20,006
TOTAL LIVESTOCK AND PRODUCTS	**807,981**	**761,311**	**760,937**
Crop Insurance Payments[2]	45,017	92,745	164,969
Western Grain Stabilization Payments	260,112	131,154	31,576
Agricultural Stabilization Act			
- Price Stabilization	5,352	5,276	1,337
- Tripartite Plans	0	13,759	72,074
Provincial Stabilization Programs	249	656	1,024
Dairy Subsidy	11,071	10,980	10,624
Other Payments	155,756	177,323	167,043
TOTAL DIRECT PAYMENTS	**477,557**	**431,893**	**448,647**
TOTAL CASH RECEIPTS	**2,091,949**	**2,064,320**	**2,101,700**

[1]Participation payments made by the CWB to producers for crops delivered in previous year.
[2]Includes payments under the Crop Insurance Act and private hail insurance plans.

SOURCE: Statistics Canada, Cat. No. 21-003; Agriculture Canada; Manitoba Agriculture.

TABLE 8 MANITOBA FARM EXPENDITURES, 1987-1989

	1987	1988	1989
	thousands of dollars		
Property Taxes	49,604	51,280	53,947
Rebates	18,780	6,919	6,919
Net Property Taxes	**30,824**	**44,361**	**47,028**
Cash Rent	52,835	54,398	56,030
Share Rent	23,010	23,995	30,882
Total Rent	**75,845**	**78,393**	**86,912**
Cash Wages	105,447	115,303	119,915
Room & Board	1,480	1,596	1,679
Total Wages	**106,927**	**116,899**	**121,594**
Interest	165,374	168,463	175,721
Rebates	2,100	1,651	2,055
Net Interest	**163,274**	**166,812**	**173,666**
Repairs to Bldg.	29,919	30,816	32,494
Repairs to Fences	5,689	6,508	6,859
Bldg. & Fence Repairs	**35,608**	**37,324**	**39,353**
Electricity	31,776	32,857	34,855
Telephone	8,248	9,284	9,553
Heating Fuel	8,580	8,188	8,745
Rebates	0	0	0
Net Heating Fuel	8,580	8,188	8,745
Total	**48,604**	**50,329**	**53,153**
Machinery Fuel	144,536	124,058	142,046
Rebates	5,572	5,468	3,628
Net Machinery Fuel	138,964	118,590	138,418
Machinery Repairs & Other	136,157	133,326	142,259
Total Machinery	**275,121**	**251,916**	**280,677**
Fertilizer	187,191	194,405	194,405
Rebates	0	0	0
Net Fertilizer	187,191	194,405	194,405
Pesticides	107,310	119,542	119,542
Rebates	0	0	0
Net Pesticides	107,310	119,542	119,542
Commercial Seed	44,428	48,387	54,822
Irrigation	0	0	0
Twine, Wire & Containers	6,095	6,126	5,734
Crop & Hail Insurance	33,309	30,357	50,667
Total Other Crop	**378,333**	**398,817**	**425,170**
Commercial Feed	153,938	164,801	173,206
Rebates	0	0	0
Net Feed	**153,938**	**164,801**	**173,206**
Livestock Purchases	16,377	15,962	12,969
A.I. & Veterinary	13,844	14,802	15,142
Rebates	0	0	0
Net A.I. & Veterinary	13,844	14,802	15,142
Total Other Livestock	**30,221**	**30,764**	**28,111**
Business Insurance	9,915	9,865	10,378
Custom Work	26,412	25,796	26,983
Stabilization Premiums	16,667	22,162	34,006
Other	35,832	36,719	39,334
Total Miscellaneous	**88,826**	**94,542**	**110,701**
Operating Expenses Before Rebates	1,413,973	1,448,996	1,552,173
Total Rebates	26,452	14,038	12,602
Operating Expenses After Rebates	**1,387,521**	**1,434,958**	**1,539,571**
Depreciation on Bldg.	17,679	16,265	17,241
Depreciation on Machinery	247,653	255,462	263,543
Total Depreciation	**265,332**	**271,727**	**280,784**
TOTAL EXPENSES BEFORE REBATES	**1,679,305**	**1,720,723**	**1,832,957**
TOTAL REBATES	**26,452**	**14,038**	**12,602**
TOTAL EXPENSES AFTER REBATES	**1,652,853**	**1,706,685**	**1,820,355**

SOURCE: Statistics Canada; Agriculture Canada; Manitoba Agriculture.

Cash Income

Farm income includes proceeds from the sale of agricultural products sold off farm through regular market channels. All deficiency, supplementary and final Canadian Wheat Board payments are included. In 1989, farm income was estimated at $2.116 billion, 2.0 per cent above the 1988 level of $2.078 billion and essentially the same as 1987 level of $2.106 billion (nominal dollars), respectively.

Farm Net Income

Realized net farm income is determined by adding total cash receipts, income-in-kind and total payments and subtracting total expenses and depreciation charges. In 1989, realized net farm income amounted to $295.3 million, 21.0 per cent less than 1988. Realized net farm income per farm in 1989 was estimated at $11,018, 21.0 per cent less than the revised 1988 value of $13,869 and 34.0 per cent below the 1987 estimate of $16,795*.

*Based on 1986 Census (27,336 farms). 1987 estimate 27,336, 1988 and 1989 are estimated at 26,800 farms.

TABLE 9: Manitoba Farm Income Summary, 1987-1989

	1987	1988	1989
	thousands of dollars		
Cash Receipts	**1,614,392**	**1,632,427**	**1,653,053**
Total Payments	**477,557**	**431,893**	**448,647**
Total Cash Receipts	**2,091,949**	**2,064,320**	**2,101,700**
Income-In-Kind	14,382	14,042	13,949
Realized Gross Income	2,106,331	2,078,362	2,115,649
Net Operating Expenses	**1,387,521**	**1,434,958**	**1,539,571**
Net Cash Income	**704,428**	**629,362**	**562,129**
Depreciation Charges	**265,332**	**271,727**	**280,784**
Realized Net Income	**453,478**	**371,677**	**295,294**
Value of Inventory Change	-75,850	-219,252	139,000
TOTAL NET INCOME	**377,628**	**152,425**	**434,294**

SOURCE: Statistics Canada; Agriculture Canada

TABLE 10: Farm Capital Investment in Manitoba, 1987-1989

	1987	1988[R]	1989[P]
	thousands of dollars		
Land and Buildings	6,123,381	5,633,511	5,971,522
Machinery and Equipment	2,207,686	2,281,965	2,345,278
Livestock and Poultry	871,391	816,514	861,305
TOTAL	**9,202,458**	**8,731,990**	**9,178,105**

SOURCE: Statistics Canada

TABLE 11: Farm Debt Outstanding, Manitoba, 1987-1989

	1987	1988[R]	1989[P]
	thousands of dollars		
Chartered Banks[1]	677,338	671,407	678,880
Federal Government Agencies[2]	395,022	346,359	306,872
Provincial Government Agencies	230,274	225,365	227,000
Credit Unions	270,968	295,644	303,184
Insurance, Trust, Loan Companies	8,816	11,978	12,337
Private Individuals and Others[3]	232,252	239,557	239,577
Advance Payment Programs	99,881	75,004	21,254
TOTAL[4]	**1,914,551**	**1,865,314**	**1,789,104**

[1]Includes loans under F.I.L.A.
[2]Includes F.C.C., V.L.A. and F.B.D.B.
[3]Includes supply companies, dealers, and stores.
[4]Totals may not add due to rounding.

SOURCE: Statistics Canada.

TABLE 12: Manitoba Farm Structure 1981, 1986

	1981 Census	1986 Census
People and Land		
Total Manitoba Population	1,026,241	1,071,232
Farm Population	98,375	86,505
Total Manitoba Land Base (thousand units)		
Hectares	54 770	54 770
Acres	135,342	135,342
Farmland		
Hectares	7 736	7 740
Acres	19,115	19,126
Improved		
Hectares	5 504.0	5 403.1
Acres	13,600.6	13,351.3
Cropland: (thousand units)		
Seeded to Crops:		
Hectares	4 420.4	4 519.3
Acres	10,923.0	11,167.5
Summerfallow:		
Hectares	598.3	509.2
Acres	1,478.5	1,258.3
Hay and Pasture:		
Hectares	2 497.7	2 541.0
Acres	6,172.0	6,279.0
Other Improved:		
Hectares	132.8	99.6
Acres	328.1	246.7
Unimproved:		
Hectares	2 231.0	2 337.1
Acres	5,513.0	5,775.2
Farms and Tenure of Operators		
Census Farms	29,442	27,336
Average Size per Census Farm		
Hectares	263	283
Acres	649	700
Average Value per Unit		
Hectares	$1,028.86	$850.66
Acres	$416.36	$344.25
Average Capital per Farm	$354,968.00	$349,525.00
Average Realized Net Income per Farm	$7,928.00	$18,406.00
Average Debt per Farm	$52,269.00	$71,603.00
Average Expenses per Farm	$49,249.00	$61,828.00
Type of Organization		
Individual/Family Farm	25,701	27,336
Partnership		
With written agreement	688	761
With no written agreement	1,965	2,468
Corporation		
Family	882	1,035
Other	85	81
Institution	—	16
Community Pasture	—	29
Other	—	77
Tenure of Operators		
Owner	16,083	25,091
Tenant	2,259	—
Part-Owner, Part-Tenant	11,100	—
Rent/Leasing	—	13,552

SOURCE: Statistics Canada

CROP PRODUCTION

General Conditions

Precipitation over the winter months (November 1988 to March 1989) was generally above normal south of the Trans Canada Highway but other regions received less than normal precipitation. Recharge from melting of the snowpack was insufficient to replenish soil moisture reserves with the consequence that many areas were in dire need of rain.

At the commencement of spring concerns were rampant that crop success would depend on high rainfall.

Precipitation in southern Manitoba during April was only between 25-50 per cent of normal meaning that moisture levels were low for continuously cropped land but slightly more for forages and pastures than the year-earlier.

Tillage and planting were delayed by cold, dry weather. By May 5, only 10-15 per cent of the intended cereals acreage was seeded. By comparison 40-45 per cent of cereals were seeded a year-ago and 75-85 per cent two years ago.

During May, Manitoba received 111.5 mm of precipitation, 6 per cent less than the normal long-term mean but 35 per cent greater than 1988. While topsoil moisture level had improved, subsurface was dry especially in south- central and western areas. Soaking rain was required in order to maintain normal crop development.

Grain and oilseed crops were rated fair to good while hay and pasture were in poor to fair condition.

Frost in early June caused some crop damage in low-lying areas. Weed growth, in general, was moderate to heavy with major problems created by wild oats and wild millet.

Grasshoppers and flea beetles posed the major problem at this time.

By July 7, 1989 and since April 1, 1989, the province had recieved 201.6 mm of precipitation, 5 per cent more than the long-term normal amount. This amount compares with last year's level that was 22 per cent less than normal.

Major cereal, oilseed and special crops were in fair to good condition throughout the province. Hay quality was good and pastures were developing well. About 60-65 per cent of cereals were heading; 70 per cent of canola and 30 per cent flaxseed were flowering and special crops were developing adequately.

During July and early August, hot, dry weather stressed crop development and resulted in forced maturation. Harvesting operations were one to two weeks ahead of long-term average. The Southwest, southern part of the Northwest and the southern part of the Central Regions were major heat stressed areas.

Between April 1 - August 13, 1989 average precipitation was 255 mm, 7 per cent less than the normal for this time.

Crop development province-wide, on average, was fair. At August 11, about 32 per cent of cereals were in swath and nearly 16 per cent were combined. Almost all the Fall rye and Winter wheat had been harvested.

The average rainfall between April 1 - September 10, 1989 was 328 mm, 3 per cent below long-term normal. Dry conditions continued to dominate Southwest and Central Regions. By September 8, 1989, 80-85 per cent of all cereal crops, 65-70 per cent of canola and 30-35 per cent of flaxseed were combined.

Harvesting of special crops was accelerating. Crop conditions in the Southwest was generally poor to fair with sprouting occurring in many areas.

About 37 per cent of fall tillage was done by September 8. Presently, feed supplies were expected to be adequate with hay averaging $56/tonne and $23/tonne, respectively.

WHEAT

Two million, ninety-four thousand, one hundred hectares (5,175,000 acres) were planted in 1989. Total production was estimated at 4 009 100 tonnes (147,300,000 bushels), a rise of 67 per cent above the 1988 level. The 1989 wheat crop had an estimated value of production of $565.3 million, a 94 per cent increase over the revised 1988 value of $291.5 million. The area seeded, average yields and total production for 1988 and 1989 are shown below.

TABLE 13: Area, Yield and Production of Wheat, 1988, 1989

Crop District	Planted Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
	1988	1989	1988	1989	1988	1989
1	266.1	273.3	1 040	1 450	277.9	395.3
2	239.7	242.4	1 020	1 270	243.8	308.4
3	219.2	231.5	1 380	1 750	301.8	405.8
4	87.2	102.4	1 660	1 940	144.4	198.8
5	79.2	94.3	2 120	2 220	168.2	209.3
6	129.1	145.0	1 670	1 880	215.1	273.0
7	266.1	280.4	1 100	2 310	292.1	648.8
8	341.2	385.4	960	2 050	327.2	789.8
9	154.0	163.0	1 190	2 470	183.0	403.0
10	19.0	20.0	1 580	2 000	30.0	40.0
11	95.0	98.0	1 420	2 180	135.0	214.0
12	54.3	58.4	1 520	2 100	82.4	122.9
PROVINCE	**1 950.1**	**2 094.1**	**1 230**	**1 910**	**2 400.9**	**4 009.1**

Crop District	Planted Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
	1988	1989	1988	1989	1988	1989
1	660	676	15.5	21.5	10,206	14,551
2	592	599	15.1	18.9	8,955	11,334
3	541	573	20.5	26.0	11,085	14,909
4	216	254	24.5	28.7	5,285	7,305
5	198	234	31.2	32.8	6,166	7,677
6	321	357	24.6	28.1	7,899	10,037
7	656	692	16.5	34.4	10,806	23,838
8	841	953	14.3	30.5	12,017	29,030
9	380	403	17.7	36.7	6,726	14,792
10	47	50	23.2	29.5	1,092	1,475
11	234	241	21.1	32.5	4,940	7,843
12	134	143	22.6	31.5	3,023	4,509
PROVINCE	**4,820**	**5,175**	**18.3**	**28.5**	**88,200**	**147,300**

NOTE: Totals may not all add due to rounding.

SOURCE: Statistics Canada.

Durum wheat is included with total wheat production statistics. In 1989 the seeded area was estimated at 142 000 hectares (350,000 acres), up 17.4 per cent from the 1988 level. Average yield was 1 650 kilograms per hectare (24.6 bushels per acre) compared to 1 080 kilograms (16.0 bushels) in 1988. Total production was estimated at 234 000 tonnes (8,600,000 bushels), an increase of 79 per cent from 1988.

OATS

Total production of oats in 1989 was estimated at 339 000 tonnes (22.0 million bushels) with a total farm value of $42.4 million, up 2.1 per cent above the revised value of $41.5 million in 1988. A 21.7 per cent rise in average yield in 1989 resulted in a 51.3 per cent increase in total production from the previous year.

TABLE 14: Area, Yield and Production of Oats, 1988, 1989

Crop District	Seeded Area (000)		Harvested Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
	1988	1989	1988	1989	1988	1989	1988	1989
1	19	21	9	16	1 000	1 310	9	21
2	33	37	20	26	1 150	960	23	25
3	19	19	16	15	1 560	1 530	25	23
4	9	10	6	8	1 670	1 750	10	14
5	13	18	11	12	1 820	1 670	20	20
6	24	27	19	21	1 530	1 670	29	35
7	40	41	32	40	1 280	2 030	41	81
8	17	19	13	19	1 080	1 530	14	29
9	16	15	12	15	1 420	2 270	17	34
10	6	6	4	6	1 500	1 670	6	10
11	12	13	11	13	1 450	1 920	16	25
12	15	17	9	11	1 560	2 000	14	22
PROVINCE	**223**	**243**	**162**	**202**	**1 380**	**1 680**	**224**	**339**

Crop District	Seeded Area (000)		Harvested Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
	1988	1989	1988	1989	1988	1989	1988	1989
1	46	51	23	40	26.1	34.1	601	1,363
2	82	92	50	64	29.7	25.3	1,487	1,622
3	47	48	40	37	39.6	40.7	1,583	1,507
4	22	24	16	20	40.6	44.4	650	888
5	31	44	26	30	50.7	43.4	1,318	1,302
6	60	66	46	53	39.6	42.4	1,821	2,248
7	100	102	78	99	33.3	52.5	2,600	5,200
8	42	48	32	46	29.3	41.5	936	1,908
9	39	38	30	37	37.0	60.5	1,109	2,237
10	14	15	10	15	40.6	44.1	406	662
11	30	31	26	31	40.9	52.5	1,063	1,627
12	37	41	23	28	40.3	51.3	926	1,436
PROVINCE	**550**	**600**	**400**	**500**	**36.3**	**44.0**	**14,500**	**22,000**

SOURCE: Statistics Canada

Oats for hay is not included in the above data. In 1989, 20 235 hectares (50,000 acres) of oats were planted and cut for hay.

BARLEY

Barley production in 1989 was 1 546 000 tonnes (71,000,000 bushels), up 42 per cent from the 1988 level. Six hundred and sixty-eight thousand hectares (1,600,000 acres) were harvested yielding an average of 2 390 kilograms per hectare (44.4 bushels per acre). The total farm value of production was $162.3 million, up 70 per cent from the 1988 level. The area, yield and production of the 1988 and 1989 barley crops are shown below. Twenty thousand, two hundred thirty-five hectares (50,000 acres) were planted and cut for fodder in 1989.

TABLE 15: Area, Yield and Production of Barley, 1988, 1989

Crop District	Harvested Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
	1988	1989	1988	1989	1988	1989
1	51	57	1 610	1 840	82	105
2	79	96	1 750	1 490	138	143
3	88	98	2 020	2 270	178	222
4	23	24	2 430	2 460	56	59
5	30	30	2 870	2 370	86	71
6	32	33	2 410	2 360	77	78
7	76	89	1 780	2 960	135	263
8	81	101	1 510	2 650	122	268
9	42	49	1 690	3 290	71	161
10	6	6	2 330	2 500	14	15
11	37	39	2 270	2 590	84	101
12	22	25	2 090	2 400	46	60
PROVINCE	**567**	**647**	**1 920**	**2 390**	**1 089**	**1 546**

Crop District	Harvested Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
	1988	1989	1988	1989	1988	1989
1	125	142	30.3	34.1	3,786	4,837
2	195	237	32.4	27.7	6,316	6,573
3	217	242	37.6	42.1	8,167	10,196
4	58	60	44.3	45.1	2,568	2,708
5	75	74	52.6	44.3	3,948	3,278
6	80	81	44.3	44.1	3,542	3,574
7	187	220	33.2	54.9	6,201	12,087
8	199	249	28.1	49.3	5,592	12,264
9	103	122	31.5	60.5	3,247	7,385
10	15	16	43.3	43.8	650	700
11	91	96	42.3	48.5	3,851	4,655
12	55	61	38.8	45.0	2,132	2,743
PROVINCE	**1,400**	**1,600**	**35.7**	**44.4**	**50,000**	**71,000**

SOURCE: Statistics Canada.

CANOLA (RAPESEED)

Canola (rapeseed) plantings were 465 000 hectares (1,150,000 acres) in 1989, 25.8 per cent less than in 1988. The average yield was estimated at 860 kilograms per hectare (15.3 bushels per acre). The total value of farm production from canola (rapeseed) was estimated at $110.5 million, 38.8 per cent less than in 1988.

TABLE 16: Area, Yield and Production of Canola (Rapeseed), 1988, 1989

Crop District	Planted Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
	1988	1989	1988	1989	1988	1989
1	95.3	68.0	780	460	74.4	31.6
2	59.4	42.0	890	430	53.1	18.0
3	81.5	68.0	1 250	850	101.5	57.7
4	35.7	34.0	1 330	1 040	47.6	35.3
5	19.1	20.0	1 340	1 250	25.6	24.9
6	58.4	46.0	1 180	1 070	68.8	49.2
7	104.3	76.0	960	1 040	100.4	78.9
8	106.0	56.0	680	780	72.3	43.7
9	27.3	21.0	820	1 160	22.4	24.3
10	4.0	3.0	1 150	1 070	4.6	3.2
11	18.9	15.0	1 120	1 030	21.2	15.4
12	17.1	16.0	1 180	1 050	20.1	16.8
PROVINCE	**627.0**	**465.0**	**980**	**860**	**612.0**	**399.0**

Crop District	Planted Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
	1988	1989	1988	1989	1988	1989
1	235.7	167.8	13.9	8.3	3,283	1,395.3
2	146.8	103.9	16.0	7.6	2,342	794.0
3	201.4	167.6	22.3	15.2	4,481	2,544.9
4	88.1	84.0	23.8	18.5	2,099	1,556.2
5	47.1	49.0	23.9	22.4	1,127	1,099.0
6	144.4	114.5	21.0	19.0	3,036	2,171.1
7	258.0	186.7	17.2	18.6	4,431	3,479.2
8	262.2	139.4	12.2	13.8	3,188	1,926.2
9	67.4	52.0	14.7	20.6	988	1,073.1
10	9.8	7.9	20.8	17.7	204	140.1
11	46.8	37.7	20.0	18.0	935	678.2
12	42.3	39.5	21.0	18.8	887	742.7
PROVINCE	**1,550.0**	**1,150.0**	**17.4**	**15.3**	**27,000**	**17,600.0**

SOURCE: Statistics Canada

FLAXSEED

In 1989, 236 000 tonnes (9.3 million bushels) were harvested, up 19.2 per cent from 1988. The increase in 1989 production was the result of a 11.4 per cent rise in yields and a 7.4 per cent increase in seeded area relative to 1988. Manitoba farmers contributed an estimated 44.5 per cent of Canadian production. The estimated total value of the 1989 crop was $79.1 million, a 43 per cent rise above 1988.

TABLE 17: Area, Yield and Production of Flaxseed, 1988, 1989

Crop District	Planted Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
	1988	1989	1988	1989	1988	1989
1	31.9	38.1	630	460	20.0	17.4
2	19.1	23.6	690	420	13.2	9.8
3	16.3	17.1	1 020	730	16.7	12.5
4	3.3	3.7	1 030	970	3.4	3.6
5	9.9	8.2	1 080	990	10.7	8.1
6	13.8	19.6	950	940	13.1	18.5
7	58.7	61.5	690	920	40.4	56.4
8	76.2	73.7	510	660	38.6	48.7
9	28.3	25.3	670	1 090	18.9	27.6
10	2.7	2.7	960	1 110	2.6	3.0
11	18.8	22.1	880	1 010	16.5	22.3
12	4.0	8.4	980	960	3.9	8.1
PROVINCE	**283.0**	**304.0**	**700**	**780**	**198.0**	**236.0**

Crop District	Planted Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
	1988	1989	1988	1989	1988	1989
1	79.0	94.2	10.0	7.3	789.2	686.6
2	47.3	58.4	11.0	6.6	519.3	386.4
3	40.2	42.2	16.4	11.7	657.9	493.1
4	8.2	9.1	16.5	15.6	135.6	141.7
5	24.4	20.3	17.2	15.8	420.2	320.0
6	34.0	48.5	15.1	15.0	514.6	728.2
7	145.5	151.4	10.9	14.7	1,590.7	2,223.3
8	188.7	181.4	8.1	10.6	1,521.5	1,923.0
9	69.9	62.5	10.7	17.4	745.2	1,086.1
10	6.6	6.6	15.6	17.6	102.7	116.2
11	46.4	54.6	14.0	16.1	649.5	876.8
12	9.8	20.8	15.7	15.3	153.6	318.6
PROVINCE	**700.0**	**750.0**	**11.1**	**12.4**	**7,800.0**	**9,300.0**

SOURCE: Statistics Canada

RYE

Total rye farm value of production was estimated at $16,434,000 in 1989, 161 per cent greater than 1988. Harvested area was 93 100 hectares (230,000 acres) in 1989 compared to 48 600 hectares (120,000 acres) in 1988. The average yield was estimated at 2 130 kilograms per hectare (33.9 bushels per acre) in 1989 compared to 1 200 kilograms per hectare (19.2 bushels per acre) in 1988.

TABLE 18: Area, Yield and Production of All Rye, 1988, 1989

Crop District	Planted Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
	1988	1989	1988	1989	1988	1989
1	11.1	19.5	1 030	2 080	11.4	40.5
2	11.4	18.6	900	1 850	10.3	34.4
3	4.5	6.5	1 290	2 000	5.8	13.0
4	1.1	2.0	1 550	1 800	1.7	3.6
5	1.5	2.1	2 000	2 480	3.0	5.2
6	1.1	1.5	1 820	2 470	2.0	3.7
7	13.2	32.9	1 390	2 270	18.3	74.6
8	3.6	7.9	1 330	2 380	4.8	18.8
9	0.7	1.3	710	2 000	0.5	2.6
10	0.2	0.4	1 500	2 250	0.3	0.9
11	0.1	0.2	2 000	2 000	0.2	0.4
12	0.1	0.2	1 000	1 500	0.1	0.3
Province	**48.6**	**93.1**	**1 200**	**2 130**	**58.4**	**198.0**

Crop District	Planted Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
	1988	1989	1988	1989	1988	1989
1	27.4	48.3	16.4	33.0	450.4	1,595.8
2	27.9	45.9	14.5	29.5	403.3	1,354.9
3	11.2	16.1	20.3	31.9	227.5	512.8
4	2.8	4.9	24.5	29.2	68.5	143.2
5	3.8	5.1	31.0	40.0	117.8	204.2
6	2.8	3.8	28.8	38.5	80.6	146.3
7	32.3	81.4	22.2	36.1	716.3	2,941.2
8	9.0	19.4	21.1	38.1	189.7	738.8
9	1.8	3.2	12.0	31.6	21.6	101.0
10	0.5	0.9	26.6	38.3	13.3	34.5
11	0.3	0.6	22.0	23.7	6.6	14.2
12	0.2	0.4	22.0	32.8	4.4	13.1
PROVINCE	**120.0**	**230.0**	**19.2**	**33.9**	**2,300.0**	**7,800.0**

SOURCE: Statistics Canada

MIXED GRAINS

An estimated 61 200 tonnes (3.0 million bushels) were produced in 1989. This level of production was 43 per cent higher than in 1988. Planted area in 1989 was 28 300 hectares (70,000 acres), the same as the 1988 level. Mixed grains total value of production in 1989 was $6.8 million, 70.0 per cent greater than the 1988 value of $4.0 million.

SPECIALTY CROPS

The 1989 production year was characterized by severe drought in Manitoba, particularly in the main specialty crop production area in the south. Very high temperatures in July also contributed to blossom blasting. Yields of all but the most drought-tolerant crops, notably sunflowers, were therefore significantly reduced.

Grain Corn

Grain corn plantings in 1989 were estimated at 34 413 hectares (85,000 acres), up 6 per cent from the 1988 level of 32 400 hectares (80,000 acres). The estimated total production of 109 000 tonnes (4.3 million bushels) was up 5 per cent from the 1988 level. The average yield of grain corn was down slightly at 3 218 kilograms per hectare (50.6 bushels per acre), compared to 3 210 kg/ha (51.3 bushels per acre) in 1988. The total value of production in 1989 was estimated at $11.1 million, 6.0 per cent less than 1987.

Sunflowerseed

The 1989 sunflower plantings were estimated at 46 500 hectares (115,000 acres), up 35 per cent from 1988. The average yield was estimated at 1 350 kilograms per hectare (1,205 pounds per acre) about 9 per cent higher than 1988. Total production of sunflowers was 63 000 tonnes, a 48 per cent increase over 1988 (42 600 tonnes). An increasing proportion of the area planted to sunflowers is non-oilseed varieties. In 1989 about 10 120 hectares (30,000 acres) or 26 per cent of the area was planted to these varieties. The value of sunflower production was estimated at $8.1 million in 1988, compared to $8.6 million in 1987.

Field Peas

The area in field peas in 1989 was estimated at 48 600 hectares (120,000 acres), compared to 72 900 hectares (180,000 acres) in 1988. The average yield was estimated at 1 500 kilograms per hectare (22.3 bushels per acre), 39 per cent more than the 1988 yield. The total production in the province of 72 800 tonnes was down slightly from 78 700 tonnes in 1988, and represented 28 per cent of the total pea production in western Canada. The value of the Manitoba crop was estimated at $12.7 million in 1989.

Buckwheat

Approximately 20 240 hectares (50,000 acres) of buckwheat were planted in Manitoba in 1989, about the same area as 1988. The average yield was estimated at 720 kilograms per hectare (13.4 bushels per acre), compared to 612 kilograms per hectare (11.4 bushels per acre) in 1988. The total production was 14 600 tonnes in 1989, up from 12 400 tonnes in 1988. This represented 46 per cent of the total Canadian crop in 1989, compared to 40 per cent in 1988. The total value of the Manitoba buckwheat crop in 1989 was estimated at $5.04 million, with the average price to the producer about $345 per tonne ($7.50 per bushel).

Mustard

The area seeded to mustards in 1989 was about 25 per cent more at 12 150 hectares (30,000 acres) compared to 1988. The area in Manitoba was about 5.7 per cent of the total area in mustard in Western Canada. Most of the provincial production was in yellow mustard. Yields were estimated at about 750 kilograms per hectare (670 pounds per acre), down from 1 010 kilograms per hectare (902 pounds per acre) in 1988. The value to producers in Manitoba of the 1989 mustard crop was about $3.4 million, compared to about $2.8 million in 1988.

Lentils

About 10 120 hectares (25,000 acres) were seeded to lentils in 1989. The average yield was about 1 240 kilograms per hectare (1,100 pounds per acre), compared to 600 kilograms per hectare (535 pounds per acre) in 1988. The total production was 12 548 tonnes compared to 7 300 tonnes in 1988. This represented about 15 per cent of the Canadian production in 1989. The value of the Manitoba production was about $1.6 million, compared with a 1988 value of $1.7 million.

Canary Seed

The area on which canary seed was produced in 1989 was about 10 120 hectares (25,000 acres) in Manitoba, the same area as 1988. The total production was about 14 170 tonnes in 1989 compared to 7 700 tonnes in 1988. This reflected a yield of 1 400 kilograms per hectare (1,250 pounds per acre) compared to 760 kilograms per hectare (680 pounds per acre). The value of the crop to Manitoba producers was about $4.5 million in 1989, compared to $3.1 million in 1988.

Fababeans

In 1989, about 2 025 hectares (5,000 acres) of fababeans were seeded in Manitoba, the smallest area for many years. The crop was reduced in quality due to insect damage and in yield from drought. Average prices paid were low so that the total crop was worth less than $0.5 million.

Field Beans

In 1989, approximately 12 150 hectares (30,000 acres) of field beans were planted in Manitoba. About 8 100 hectares (20,000 acres) were in white navy beans, with most of the remaining area in pinto beans and smaller areas in dark red kidney or black beans. The area in beans was 73 per cent greater than in 1988.

The yield of beans was again greatly reduced by drought. The average yield of white navy beans was about 560 kilograms per hectare (500 pounds per acre), producing a total of 4 535 tonnes. The average price paid for Manitoba navy beans was 57.0 cents per kilogram (26.0 cents per pound), giving a total crop value for the year of $2,563,862.

Pinto beans were produced on about 1 620 hectares (4,000 acres) in 1989, with an average yield of about 840 kilograms per hectare (750 pounds per acre). Average prices for pintos were about 68.0 cents per kilogram (31.0 cents per pound) in 1989. This gave a total pinto bean crop of 1 360 tonnes, with a value of $920,720.

The remainder of the bean area in 1989 (about 300 hectares or 750 acres) produced dark red kidney beans. Yields suffered more from the drought, and were lower at about 430 pounds per acre. Total production of kidney beans was about 146 tonnes. With an average price of about 38.6 cents per pound the total value was $124,243.

The total farm gate value of all beans in Manitoba in 1989 was therefore estimated to be $3,608,825, from a production of 6 041 tonnes.

Sugar Beets

The sugar beet harvested area was 10 498 hectares (25,929 acres) in 1989, up 14 per cent from 1988. The average yield was 31.34 tonnes per hectare (12.69 tons per acre). Total production was 329 007 tonnes and valued at an estimated $14,805,329. The entire value of the crop (about $45/tonne) came from the company in 1989 with no stabilization payment included. In 1988 the stabilization payment had been $4.17/tonne in a total value of $44.23/tonne and $9,540,000 for the entire crop.

Corn for Fodder

In 1989, 12 100 hectares (30,000 acres) of fodder corn was harvested, reflecting a 20 per cent increase over 1988. Two hundred and twenty-seven thousand tonnes (250,000 bushels) of silage were produced. The latter was 57 per cent greater than silage production in 1988. Estimated at $3.2 million in 1989, the value of production rose by 57 per cent over the 1988 value of $2.0 million.

TAME HAY AND PASTURE

In 1989, the area in tame hay was estimated at 647 000 hectares (1,600,000 acres), identical to the 1988 estimates. With an estimated value of $132.1 million in 1989, it was 3 per cent less than in 1988.

While estimates of production of wild hay and other crops (wheat, millet) cut for hay are unknown, the area of improved pasture was estimated at 281 000 hectares (694,000 acres) in 1989.

TABLE 19: Area, Yield and Production of Tame Hay, 1988, 1989

Crop District	Harvested Hectares (000)		Yield per Hectare (tonnes)		Production (000 tonnes)	
	1988	1989	1988	1989	1988	1989
1	40	42	1.44	1.93	58	81
2	61	58	2.05	1.98	125	115
3	47	51	2.53	2.12	119	108
4	30	29	2.91	3.62	87	105
5	28	29	4.29	3.97	120	115
6	82	79	3.48	3.38	285	267
7	68	66	3.17	4.36	215	288
8	36	36	1.43	3.53	51	127
9	57	54	2.96	5.37	169	290
10	38	40	3.70	4.80	141	192
11	38	38	2.64	5.63	100	214
12	122	125	2.08	5.10	253	638
PROVINCE	**647**	**647**	**2.66**	**3.93**	**1 724**	**2 540**

Crop District	Harvested Acres (000)		Yield per Acre (tons)		Production (000 tons)	
	1988	1989	1988	1989	1988	1989
1	99	104	0.64	0.86	64	89
2	152	144	0.92	0.88	138	127
3	116	126	1.13	0.94	131	119
4	74	72	1.29	1.61	96	116
5	69	71	1.91	1.79	133	127
6	203	196	1.55	1.50	315	294
7	168	164	1.41	1.93	237	317
8	89	90	0.64	1.56	57	140
9	142	134	1.31	2.39	186	320
10	94	98	1.65	2.16	155	212
11	95	94	1.16	2.51	110	236
12	299	307	0.93	2.29	279	703
PROVINCE	**1,600**	**1,600**	**1.19**	**1.75**	**1,900**	**2,800**

SOURCE: Statistics Canada.

TABLE 20: Area of Pasture, 1988, 1989

Crop District	Hectares (000)		Acres (000)	
	1988	1989	1988	1989
1	23	23	58	58
2	29	30	71	73
3	27	28	67	69
4	20	21	50	53
5	22	21	53	52
6	36	35	90	86
7	34	34	85	83
8	17	17	42	43
9	13	13	32	33
10	8	7	19	18
11	15	15	38	37
12	39	39	95	95
Province	**283**	**283**	**700**	**700**

SOURCE: Statistics Canada.

POTATOES

The area planted to potatoes in 1989 was estimated at 18 413 hectares (45,500 acres).

Spring planting started slowly with below normal temperatures and average to fair moisture conditions. Dry conditions continued throughout the growing season resulting in reduced yields.

For processing potatoes there were near average yields in Portage la Prairie and Carberry regions and well below average in and around Winkler.

Processing volumes were about 80 per cent of expected resulting in raw product having to be brought into Manitoba from other areas.

On the whole, processing, table and seed potato yields were below average.

Table stock prices were high due to insufficient local supply.

With two successive dry years, more and more attention was paid to expanding irrigated acreage. In 1989 approximately 25 per cent of Manitoba's processing crop was irrigated.

In 1989, planted acreage comprised: processing (75.5 per cent); table (14.5 per cent) and seed (10.0 per cent).

The value of production for marketed potatoes consisted of: processing $29,636,000; table stock $9,767,000; and seed $5,836,000; for a total of $45,239,000.

VEGETABLES

The year 1989 was not a banner year for Manitoba's vegetable industry. Heavy frosts and generally cool spring weather followed by high temperatures in July and several disease outbreaks negatively impacted the production of several commodities. Minimal rainfall necessitated continual application of irrigation water. Growers in the southern most area of the province experienced severe drought conditions. Campbell Soup Company in Portage la Prairie announced their closure effective January 1991. Local grower contracts of potatoes, carrots, celery, onions, etc. are valued at approximately $600,000. The plant employs an estimated 180 persons.

Good weather in the late summer and fall allowed growers to harvest storage crops with a minimum of delay.

Fresh market quality ranged from fair to good. Yields ranged from below average to average. Demand was good with prices below average to average.

TABLE 21: 1989 Fresh Vegetable Production and Farm Value, Manitoba

	Planted Area (hectares)	Harvested Area (hectares)	Average Yield (kg/ha)	Total Production (tonnes)	Average Price ($/kg)	Total Value ($000)
Asparagus	30.4	28.3	1 944	55.0	2.23	122.6
Beets	12.1	12.1	8 578	103.8	0.49	50.5
Cabbage	135.6	135.6	2 335	317.0	0.26	119.9
Carrots	131.5	131.5	30 743	4 043.0	0.37	1,515.4
Cauliflower	165.9	165.9	9 527	1 581.0	0.29	465.1
Broccoli	80.9	80.9	587	47.0	1.37	65.0
Celery	40.5	40.5	26 901	1 089.0	0.44	480.0
Corn, Sweet	202.3	202.3	5 084	1 028.0	0.35	362.9
Cucumbers	40.5	40.5	5 600	227.0	0.62	139.9
Lettuce	24.3	24.3	9 707	236.0	0.73	171.5
Onions	176.0	176.0	13 105	2 306.0	0.66	1,526.1
Parsnips	34.4	34.4	11 448	394.0	0.99	390.7
Peppers	12.1	12.1	5 619	68.0	0.73	49.6
Radish	12.1	12.1	5 268	64.0	0.66	42.3
Squash & Pumpkins	24.3	24.3	6 893	167.0	0.44	73.8
Tomatoes	12.1	12.1	7 846	95.0	0.77	73.5
Rutabagas & Turnips	52.6	52.6	17 966	945.0	0.40	375.1
Peas, Sweet	40.5	40.5	1 237	50.0	1.70	85.0
Processing	113.3	113.3	—	—	—	280.0
Beans, Snap	40.5	40.5	1 392	56.0	1.41	79.5
Other Crops	18.2	18.2	—	—	—	12.1
Spinach	12.1	12.1	—	—	—	21.0
Garlic, Leeks, & Allianceous	4.0	4.0	—	—	—	4.0
TOTAL	**1 416.2**	**1 414.4**	—	—	—	**6,505.5**

	Planted Area (acres)	Harvested Area (acres)	Average Yield (lb/acre)	Total Production (tons)	Average Price ($/lb)	Total Value ($000)
Asparagus	75	70	1,734	60.7	1.01	122.6
Beets	30	30	7,653	114.8	0.22	50.5
Cabbage	335	335	2,983	499.6	0.12	119.9
Carrots	325	325	27,428	4,457.1	0.17	1,515.4
Cauliflower	410	410	8,500	1,742.5	0.13	465.1
Broccoli	200	200	524	52.4	0.62	65.0
Celery	100	100	24,000	1,200.0	0.20	480.0
Corn, Sweet	500	500	4,536	1,134.1	0.16	362.9
Cucumbers	100	100	4,996	249.8	0.28	139.9
Lettuce	60	60	8,660	259.8	0.33	171.5
Onions	435	435	11,692	2,543.5	0.30	1,526.1
Parsnips	85	85	10,214	434.1	0.45	390.7
Peppers	30	30	5,013	75.2	0.33	49.6
Radish	30	30	4,700	70.5	0.30	42.3
Squash & Pumpkins	60	60	6,150	184.5	0.20	73.8
Tomatoes	30	30	7,000	105.0	0.35	73.5
Rutabagas & Turnips	130	130	16,029	1,041.9	0.18	375.1
Peas, Sweet	100	100	1,104	55.2	0.77	85.0
Processing	280	280	—	—	—	280.0
Beans, Snap	100	100	1,242	62.1	0.64	79.5
Other Crops	45	45	—	—	—	12.1
Spinach	30	30	—	—	—	21.0
Garlic, Leeks, & Allianceous	10	10	—	—	—	4.0
TOTAL	**3,500**	**3,495**	**—**	**—**	**—**	**6,505.5**

SOURCE: Manitoba Agriculture

ORNAMENTAL CROPS

Nursery Stock. In most production areas both perennials and woody plants wintered well. Early spring sales were generally lower than expected with some producers indicating volume down and retail prices similar to 1988.

Wholesale prices were reported to be not much higher than 1985 prices.

Lining out stock and plants for growing on, continued to be imported from northern U.S.A. and Europe.

Some local plant material is exported to northern U.S.A. markets.

Landscape contracting continued to be relatively slow and bidding was very competitive.

Estimated value of production - $5,500,000.

Estimated acreage - 1,750 acres (730 hectares).

Nursery Sod. Demand for nursery sod was steady but there was virtually no price increase over the previous year.

Estimated harvest - 3,000 acres (1 200 hectares).

Estimated value of production - $7,200,000.

Average field price - $0.50/m^2.

TABLE 22: Value of Production of Floriculture & Nursery

Total Estimated Value for 1989 Production:

Potatoes	$45,239
Commercial Vegetables (Fresh)	6,506
Fruits	3,400
Environmentally Controlled Production (Greenhouse and Mushrooms)	15,500
Nursery Products and Sod	10,250
TOTAL	**$80,895**

SOURCE: Manitoba Agriculture

Fruit

The fruit industry in Manitoba declined slightly in 1989 to 380 hectares (938 acres). Total farm gate value is estimated at $3.05 million. The decline of 25 hectares (62 acres) has been mainly in the strawberry sector total area 280 hectares (~91 acres). Modest increases of 9 hectares (22 acres) were registered in the raspberry area total 80 hectares (197 acres), apples 6 hectares (15 acres) and Saskatoons 6 hectares (15 acres), total area 20 hectares (49 acres).

The industry appears to be levelling out in the established crops such as strawberry and raspberry and shifting to newer crops such as apples and Saskatoons. U-pick markets continue to soften with other direct markets such as roadside and farmers' markets gaining in popularity. Market opportunities for sale of fresh fruit continue to develop in hotels, restaurants and institutions, as well as cottage scale processing. The industry will have to adopt mechanical harvesting technology where prices per kilogram of harvested fruit ranges from 10-33¢/kg (4.5-15¢/lb) as opposed to 50-80¢/kg (25-35¢/lb) required to cover hand picking costs competitive. This technology adoption will be the next step if the industry is to expand in a major way.

Hot and dry conditions similar to the 1988 season resulted in early harvest dates for most fruit crops by up to two weeks. The harvest season was short and in some cases only two picking dates were recorded with fruit yield and size being below average. However, there were pockets of good yields as high as 13 478 kg/ha (12,000 lbs/ac) produced by the new cultivars Kent and Glooscap. Raspberry, Saskatoon and apple yields were about average.

New plantings established earlier in the season were able to miss the intense heat of May resulting in excellent stands of strawberries by October. Strawberry prices remained stable at $1.75-2.20/kg ($0.80-1.10/lb). Price increases are expected next year providing there is not a bumper crop.

Raspberry prices remained good at $1.55-2.75/kg ($0.61-1.25/lb) U-picked, and at $2.00-2.75/kg ($0.90-1.25/lb) picked.

Saskatoon prices remained strong at $4.40/kg ($2.00/lb) U-picked and $5.50-6.60/kg ($2.50-3.00/lb) for picked product.

Apple prices ranged from 55-88¢/kg (25-40¢/lb) for ungraded product.

Greenhouse Production

Greenhouse gross sales kept pace with inflation at about 6 per cent. Early spring sales extended the normal selling season with some growers reporting volume increases of 25-35 per cent. Lack of water and hot, dry conditions did have a slowing effect on sales, especially for rural based greenhouse operations where the economy is in more of a downturn compared to urban based operations.

Slight increases in wholesale prices $8.35-9.35/flat help improve the returns to smaller bedding plant growers.

Despite the expansion of existing operations and the addition of new growers, the bedding plant market continues to absorb this production with little evidence of saturation. This is based on reports of early season sellout by the major producers. Domestic markets continue to remain good as well. Excellent selected opportunities to export south continue to present themselves. Development of a "clearing house" or marketing Co-op agency may be the only way to develop these markets. Excellent domestic market opportunities continue to remain open for selected cut flowers, roses, alstromeria, freesia and cut lilies. Several new grower proposals are in the development stage to examine and potentially fill these markets.

The industry needs assistance in introducing new crops into the production cycles of existing growers. Until this infrastructure is established, Manitoba will continue to receive products from outside the province.

Mushrooms. Manitoba's mushroom production was similar to 1988 at 49 090 kg/wk (108,000 lb/wk). Total annual production was 2.5 million kilograms (5.6 million pounds) with 32 per cent being exported. Manitoba continues to hold about 47 per cent share of the prairie production.

Controlled Environment

With a slight increase in greenhouse production over 1988, the controlled environment industry is valued at $15.5 million.

SEED PRODUCTION

Forage Seeds: Total production of all forage seeds, including foreign and private varieties increased from 11 150 000 kilograms (24,579,000 pounds) in 1988 to 12 150 000 kilograms (26,785,000 pounds) in 1989. The total farm gate value decreased from $13,795,000 to $11,254,500.

There was an increase in the total area harvested in 1989 and this, coupled with generally favorable growing conditions resulted in an increase in production. In particular, alfalfa, timothy, bromegrass and Kentucky bluegrass increased significantly from 1988 to 1989, while sweet clover production declined significantly.

In view of increased production in Manitoba and Western Canada, and softening demand, the farm gate prices for all forage seed crops fell in 1989. Significant price decreases were experienced for alfalfa, bromegrass, Birds-foot trefoil, Kentucky bluegrass, Timothy and sweet clover. In total, the farm gate value of all forage seed crops in 1989 was 82 per cent of the 1988 value.

The following table indicates the production and average farm gate price for a combination of certified and common seed.

TABLE 23: Production and Value of Forage Seeds, 1989

	Production		Price per		Farm Value
	kilograms (000)	pounds (000)	kilogram $	pound $	($000)
Alfalfa	4 500	9,920	1.43	0 65	6,435
Birdsfoot Trefoil	550	1,212	1 65	0.75	907.5
Bromegrass	180	397	0.66	0.30	119
Crested Wheatgrass	150	331	1.10	0.50	165
Kentucky Bluegrass	125	276	0.88	0.40	110
Meadow Fescue	55	121	0.24	0.11	13
Red Clover (double cut)	40	88	1.10	0.50	44
Red Clover (single cut)	200	441	0.55	0.25	110
Sweet Clover	1 750	3,858	0 18	0.08	315
Timothy	4 600	10,141	0.66	0.30	3,036
TOTAL	12 150	26,785			11,254.5

SOURCE: Manitoba Agriculture

Pedigreed Seed: Because of its importance in Manitoba agriculture, the area seeded to this type of crop production is given in detail. These figures are included in the estimates of total production of cereals, grasses and other crops. A portion of this seed is used in the province and part is exported. These are not included in the records of commercial marketings through elevators but are considered in the total value of crop production.

TABLE 24A: Area of Foundation, Registered and Certified Seed Production

Kind of Crop	Hectares 1987	1988	1989
Wheat — Hard Red Spring	38 059	47 081	52 688
— Prairie Spring	2 044	2 270	1 638
— Soft White Spring	59	40	—
— Durum	7 181	5 469	6 901
— Utility	—	1 461	1 236
— Winter	85	45	123
Oats	2 788	3 061	3 215
Barley — 2-Row	5 548	1 722	1 264
— 6-Row	17 507	13 771	18 092
Rye — Fall	358	694	942
— Spring	132	107	51
Triticale	4	22	31
Flaxseed	13 003	9 443	11 245
Peas — Field	11 032	11 275	8 529
Beans — Faba	777	1 418	150
— Soybeans	174	271	80
— Field	85	65	259
Buckwheat	395	227	280
Canola (Rapeseed) — Argentine type	2 321	3 098	3 689
— Polish type	132	144	174
Alfalfa	6 139	7 353	8 434
Bromegrass	63	265	327
Kentucky Bluegrass	142	164	140
Meadow Fescue	218[R]	249[R]	170
Sweet Clover — Yellow Blossom	307	583	270
Timothy	14 662[R]	16 319[R]	16 318
Red Clover — Single- and Double-cut	57[R]	65[R]	87
Birdsfoot Trefoil	1 374	2 220	2 011
Mustard (Yellow & Brown)	—	1	280
Radish	229	—	—
Lentils	1 532	809	859
Canary Grass	333	71	212
Miscellaneous Grass Crops	—	204	256
TOTAL	**126 736**	**129 989**	**139 949**

TABLE 24B: Area of Foundation, Registered and Certified Seed Production

Kind of Crop	Acres 1987	1988	1989
Wheat — Hard Red Spring	94,047	116,340	130,195
— Prairie Spring	5,050	5,610	4,047
— Soft White Spring	145	100	—
— Durum	17,745	13,515	17,053
— Utility	—	3,610	3,054
— Winter	210	110	305
Oats	6,890	7,565	7,945
Barley — 2-Row	13,710	4,255	3,123
— 6-Row	43,260	34,030	44,706
Rye — Fall	885	1,715	2,327
— Spring	325	265	126
Triticale	10	55	76
Flaxseed	32,130	23,335	27,786
Peas — Field	27,260	27,862	21,076
Beans — Faba	1,920	3,505	371
— Soybeans	430	670	197
— Field	210	160	639
Buckwheat	975	560	692
Canola (Rapeseed) — Argentine type	5,735	7,655	9,116
— Polish type	325	355	430
Alfalfa	15,170	18,170	20,840
Bromegrass	155	655	807
Kentucky Bluegrass	350	405	345
Meadow Fescue	539	615	420
Sweet Clover — Yellow Blossom	758	1,440	667
Timothy	36,230	40,325	40,322
Red Clover — Single- and Double-cut	140	160	215
Birdsfoot Trefoil	3,395	5,485	4,970
Mustard (Yellow & Brown)	565	3	691
Radish	—	—	—
Lentils	3,785	2,000	2,123
Canary Grass	823	175	525
Miscellaneous Grass Crops	—	505	633
TOTAL	**313,172**	**321,210**	**345,822**

R - Revised.

TABLE 25: Certified Potato Production

	Number Growers	Hectares Inspected	Hectares Passed Inspection	Production Graded Stock	(tonnes)
		1989			1988
Russet Burbank	11	1 251.4	1 251.4	20 277	16 502
Norland	8	133.3	133.3	1 465	1 017
Norchip	4	121.0	121.0	1 646	984
Red Pontiac	6	101.2	101.2	982	647
Kennebec	0	0	0	0	48
Norgold Russet	0	0	0	0	0
Carlton	2	3.1	3.1	33	28
Shepody	6	132.1	132.1	2 661	1 028
Conestoga	2	16.7	16.7	233	244
Yukon Gold	4	39.6	39.6	613	434
Monona	3	52.4	52.4	393	337
Norking Russet	0	0	0	0	21
Russet Norkotah	2	7.7	7.7	53	0
Sangre	1	8.1	8.1	78	14
Saginaw Gold	1	0.6	0.6	4	0
All Varieties	14	1 867.2	1 867.2	28 438	21 304

	Number Growers	Acres Inspected	Acres Passed Inspection	Production Graded Stock	(tons)
		1989			1988
Russet Burbank	11	3,092	3,092	22,351	18,190
Norland	8	329	329	1,615	1,121
Norchip	4	299	299	1,814	1,085
Red Pontiac	6	250	250	1,082	713
Kennebec	0	0	0	0	53
Norgold Russet	0	0	0	0	0
Carlton	2	8	8	36	31
Shepody	6	326	326	2,933	1,133
Conestoga	2	41	41	257	269
Yukon Gold	4	98	98	676	478
Monona	3	129	129	433	371
Norking Russet	0	0	0	0	23
Russet Norkotah	2	19	19	58	0
Sangre	1	20	20	86	15
Saginaw Gold	1	1	1	4	0
All Varieties	14	4,614	4,614	31,347	23,483

SOURCE: Agriculture Canada

TABLE 26: Farm Supply and Disposition of Major Crops, Manitoba, 1983-84 to 1988-89

1983-84	All Wheat	Durum	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)
			thousand tonnes				
SUPPLY							
Opening Stocks — Aug 1	110	4	110	375	25	45	10
Production	3 410	144	401	1 589	163	297	397
TOTAL SUPPLY	3 520	148	511	1 964	188	342	407
DISPOSITION							
Marketings	3 029	123	79	1 232	157	285	304
Seed Requirements	171	10	21	64	7	19	4
Feed, Waste & Dockage	251	10	351	597	19	33	97
Carryover, July 31	70	5	60	70	5	5	2
TOTAL DISPOSITION	3 520	148	511	1 964	188	342	407
			thousand bushels				
SUPPLY							
Opening Stocks — Aug 1	4,042	147	7,133	17,224	984	1,772	440
Production	125,297	5,291	26,001	72,983	6,417	11,692	17,505
TOTAL SUPPLY	129,339	5,438	33,134	90,207	7,401	13,464	17,945
DISPOSITION							
Marketings	111,298	4,520	5,123	56,586	6,417	11,220	13,404
Seed Requirements	6,246	367	1,362	2,940	276	748	176
Feed, Waste & Dockage	9,223	367	22,760	27,466	512	1,299	4,277
Carryover, July 31	2,572	184	3,891	3,215	197	197	88
TOTAL DISPOSITION	129,339	5,438	33,134	90,207	7,401	13,464	17,945

1984-85	All Wheat	Durum	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)
			thousand tonnes				
SUPPLY							
Opening Stocks — Aug 1	70	5	60	70	5	5	2
Production	3 742	191	432	1 938	196	439	544
TOTAL SUPPLY	3 812	196	492	2 008	201	444	546
DISPOSITION							
Marketings	3 266	145	80	1 327	137	365	474
Seed Requirements	184	11	20	66	7	19	3
Feed, Waste & Dockage	322	34	343	545	47	58	64
Carryover, July 31	40	6	50	70	10	3	5
TOTAL DISPOSITION	3 812	196	492	2 008	201	444	546
			thousand bushels				
SUPPLY							
Opening Stocks — Aug 1	2,572	184	3,891	3,215	197	197	88
Production	137,496	7,018	28,012	89,012	7,716	17,283	23,986
TOTAL SUPPLY	140,068	7,202	31,902	92,227	7,913	17,480	24,074
DISPOSITION							
Marketings	120,006	5,328	5,187	60,949	5,393	14,369	20,900
Seed Requirements	6,761	404	1,297	3,031	276	748	132
Feed, Waste & Dockage	11,832	1,249	22,241	25,032	1,850	2,283	2,822
Carryover, July 31	1,470	220	3,242	3,215	394	118	220
TOTAL DISPOSITION	140,068	7,202	31,902	92,227	7,913	17,480	24,074

TABLE 26 (cont'd)

1985-86	All Wheat	Durum	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)
				thousand tonnes			
SUPPLY							
Opening Stocks — Aug 1	40	5	50	70	10	3	5
Production	5 226	327	494	2 526	167	559	635
TOTAL SUPPLY	5 266	332	544	2 596	177	562	640
DISPOSITION							
Marketings	4 836	277	101	1 582	86	453	537
Seed Requirements	189	15	18	56	3	18	3
Feed, Waste & Dockage	201	38	326	828	64	71	80
Carryover, July 31	40	2	100	130	25	20	20
TOTAL DISPOSITION	5 266	332	544	2 596	177	562	640
				thousand bushels			
SUPPLY							
Opening Stocks — Aug 1	1,470	184	3,242	3,215	394	118	220
Production	192,024	12,015	32,032	116,019	6,574	22,007	27,998
TOTAL SUPPLY	193,494	12,199	35,274	119,234	6,968	22,125	28,219
DISPOSITION							
Marketings	177,694	10,178	6,549	72,661	3,386	17,834	23,677
Seed Requirements	6,945	551	1,167	2,572	118	709	132
Feed, Waste & Dockage	7,386	1,396	25,029	38,030	2,520	2,795	3,527
Carryover, July 31	1,470	73	6,484	5,971	984	787	882
TOTAL DISPOSITION	193,494	12,199	39,229	119,234	6,968	22,125	28,219

1986-87	All Wheat	Durum	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)
				thousand tonnes			
SUPPLY							
Opening Stocks — Aug 1	40	2	100	130	25	20	20
Production	4 477	373	463	1 851	61	572	578
TOTAL SUPPLY	4 517	375	563	1 981	86	592	598
DISPOSITION							
Marketings	3 455	285	85	1 010	39	447	526
Seed Requirements	185	13	18	61	2	14	3
Feed, Waste & Dockage	347	42	381	751	20	81	59
Carryover, July 31	530	35	80	160	25	50	10
TOTAL DISPOSITION	4 518	375	563	1 981	86	592	598
				thousand bushels			
SUPPLY							
Opening Stocks — Aug 1	1,470	73	6,484	5,971	984	787	882
Production	164,540	13,706	30,022	85,016	2,402	22,518	25,485
TOTAL SUPPLY	166,009	13,779	36,506	90,987	3,386	23,306	26,367
DISPOSITION							
Marketings	126,951	10,472	5,512	46,389	1,535	17,597	23,192
Seed Requirements	6,798	478	1,167	2,802	79	551	132
Feed, Waste & Dockage	12,750	1,543	24,705	34,493	787	3,189	2,601
Carryover, July 31	19,474	1,286	5,187	7,349	984	1,968	441
TOTAL DISPOSITION	166,009	13,779	36,506	90,987	3,386	23,306	26,367

TABLE 26 (cont'd)

1987-88	All Wheat	Durum	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)
				thousand tonnes			
SUPPLY							
Opening Stocks — Aug 1	530	35	80	160	25	50	10
Production	3 947	259	416	1 938	46	406	585
TOTAL SUPPLY	4 477	294	496	2 098	71	456	595
DISPOSITION							
Marketings	3 466	177	108	894	50	334	494
Seed Requirements	187	14	20	52	4	12	5
Feed, Waste & Dockage	567	83	289	842	7	50	77
Carryover, July 31	260	20	79	310	10	60	20
TOTAL DISPOSITION	4 477	294	496	2 098	71	456	595
				thousand bushels			
SUPPLY							
Opening Stocks - Aug 1	19,474	1,286	5,187	7,349	984	1,968	441
Production	145,029	9,517	26,974	89,012	1,811	15,983	25,794
TOTAL SUPPLY	164,503	10,803	32,162	96,361	2,795	17,952	26,235
DISPOSITION							
Marketings	127,355	6,504	7,003	41,061	1,968	13,149	21,781
Seed Requirements	6,871	514	1,297	2,388	157	472	220
Feed, Waste & Dockage	20,724	3,050	18,739	38,673	276	1,968	3,395
Carryover, July 31	9,553	735	5,123	14,238	394	2,362	882
TOTAL DISPOSITION	164,503	10,803	32,162	96,361	2,795	17,952	26,235

1988-89	All Wheat	Durum	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)
				thousand tonnes			
SUPPLY							
Opening Stocks — Aug 1	260	20	80	310	10	60	20
Production	2 401	131	224	1 089	58	198	612
TOTAL SUPPLY	2 661	151	304	1 399	68	258	632
DISPOSITION							
Marketings	2 289	111	94	647	50	187	510
Seed Requirements	218	16	21	62	9	14	4
Feed, Waste & Dockage	104	19	158	596	4	47	78
Carryover, July 31	50	5	30	95	5	10	40
TOTAL DISPOSITION	2 661	151	304	1 399	68	258	632
				thousand bushels			
SUPPLY							
Opening Stocks — Aug 1	9,553	735	5,187	14,238	394	2,362	882
Production	88,222	4,813	14,525	50,018	2,283	7,795	26,984
TOTAL SUPPLY	97,776	5,548	19,712	64,256	2,677	10,157	27,866
DISPOSITION							
Marketings	84,107	4,079	6,095	29,717	1,968	7,362	22,487
Seed Requirements	8,010	588	1,362	2,848	354	551	176
Feed, Waste & Dockage	3,821	698	10,245	27,374	157	1,850	3,439
Carryover, July 31	1,837	184	1,945	4,363	197	394	1,764
TOTAL DISPOSITION	97,776	5,548	19,712	64,256	2,677	10,157	27,866

SOURCE: Statistics Canada

TABLE 27: Stocks of Major Crops on Farms, Manitoba, July 31, 1985-1989

	All Wheat	Oats	Barley	Rye	Canola (Rapeseed)	Flaxseed
			thousand tonnes			
1985	40	50	70	15	5	3
1986	40	100	130	25	20	20
1987	530	80	160	25	10	50
1988	260	80	310	10	20	60
1989	50	30	95	5	40	10
			thousand bushels			
1985	1,470	3,242	3,215	591	220	118
1986	1,470	6,484	5,971	984	882	787
1987	19,474	5,187	7,349	984	441	1,968
1988	9,553	5,187	14,238	394	882	2,362
1989	1,837	1,945	4,363	197	1,764	394

SOURCE: Statistics Canada

TABLE 28: Producer Marketings, Manitoba, Crop Year 1988/89

	Bread Wheat	Durum	All Wheat	Oats	Barley	All Rye	Flaxseed	Canola (Rapeseed)
				'000 tonnes				
1989								
Aug.	435.9	27.6	463.5	12.1	54.2	39.1	16.9	25.3
Sept.	285.8	15.8	301.6	7.8	55.5	9.5	59.9	56.9
Oct.	422.7	30.4	453.1	8.3	45.8	4.9	21.9	29.4
Nov.	227.6	36.5	264.1	11.2	86.4	6.3	9.5	38.0
Dec.	63.0	5.4	68.5	10.4	39.5	3.4	5.5	14.2
1990								
Jan.	332.3	6.4	338.7	15.1	62.5	5.8	15.0	23.9
Feb.	170.2	4.0	174.2	7.9	44.3	4.8	15.9	18.5
March	193.9	21.0	215.0	8.0	50.6	5.5	8.9	35.2
April	404.2	30.7	435.0	16.4	52.8	6.9	7.6	34.5
May	448.6	11.7	460.4	10.6	47.5	7.4	7.6	24.4
June	329.4	11.4	340.8	11.5	89.3	12.6	4.8	19.6
July	230.8	9.6	240.4	17.5	139.7	15.8	3.6	32.7
TOTAL	**3 544.5**	**210.7**	**3 755.2**	**136.6**	**768.1**	**122.1**	**177.1**	**352.6**

	Bread Wheat	Durum	All Wheat	Oats	Barley	All Rye	Flaxseed	Canola (Rapeseed)
				'000 bushels				
1989								
Aug.	16,016	1,014	17,030	782	2,490	1,541	667	1,116
Sept.	10,502	579	11,081	507	2,548	375	2,359	2,510
Oct.	15,530	1,116	16,645	537	2,102	195	862	1,296
Nov.	8,363	1,342	9,704	723	3,969	249	372	1,674
Dec.	2,316	200	2,516	671	1,813	132	216	626
1990								
Jan.	12,208	235	12,443	982	2,871	228	592	1,054
Feb.	6,251	148	6,400	511	2,036	189	625	815
March	7,125	773	7,898	517	2,326	216	351	1,554
April	14,852	1,129	15,981	1,061	2,424	273	299	1,519
May	16,482	431	16,914	689	2,181	292	301	1,074
June	12,101	420	12,521	744	4,102	497	188	864
July	8,481	353	8,833	1,137	6,414	620	142	1,443
TOTAL	**130,227**	**7,740**	**137,967**	**8,860**	**35,277**	**4,807**	**6,974**	**15,546**

	Bread Wheat	Durum	All Wheat	Oats	Barley	All Rye	Flaxseed	Canola (Rapeseed)
				'000 tonnes				
1988								
Aug.	340.8	18.1	358.8	5.9	30.7	5.5	18.2	58.4
Sept.	325.4	15.5	340.9	10.0	39.6	4.3	27.1	78.5
Oct.	227.1	14.6	241.7	8.1	36.9	3.3	29.3	51.1
Nov.	297.7	10.4	308.1	7.5	26.2	3.1	2.1	35.2
Dec.	219.4	11.3	230.7	8.8	50.1	5.2	4.7	29.4
1989								
Jan.	64.3	2.8	67.1	5.1	27.1	1.5	12.4	20.6
Feb.	71.5	2.6	74.1	5.1	33.8	1.9	11.4	29.7
March	138.1	9.2	147.3	8.3	55.0	4.0	22.2	85.6
April	85.7	5.5	91.2	6.2	56.8	2.4	15.1	48.9
May	73.1	2.7	75.8	4.8	45.6	1.9	7.6	21.4
June	175.1	10.6	185.7	8.6	112.6	3.1	8.6	29.5
July	159.3	7.9	167.1	15.9	132.1	14.2	27.7	56.5
TOTAL	**2 177.4**	**111.2**	**2 288.6**	**94.3**	**646.5**	**50.3**	**186.5**	**544.7**

	Bread Wheat	Durum	All Wheat	Oats	Barley	All Rye	Flaxseed	Canola (Rapeseed)
				'000 bushels				
1988								
Aug.	12,522	665	13,184	383	1,410	217	716	2,575
Sept.	11,956	570	12,526	648	1,819	169	1,067	3,461
Oct.	8,345	536	8,881	525	1,695	130	1,153	2,253
Nov.	10,939	382	11,321	486	1,203	122	83	1,552
Dec.	8,062	415	8,477	571	2,301	205	185	1,296
1989								
Jan.	2,363	103	2,466	331	1,245	59	488	908
Feb.	2,627	96	2,723	331	1,552	75	449	1,310
March	5,074	338	5,412	538	2,526	157	874	3,774
April	3,149	202	3,351	402	2,609	94	594	2,156
May	2,686	99	2,785	311	2,094	75	299	944
June	6,434	389	6,823	558	5,172	122	339	1,301
July	5,853	290	6,140	1,031	6,067	559	1,090	2,491
TOTAL	**80,006**	**4,086**	**84,092**	**6,115**	**29,694**	**1,980**	**7,342**	**24,017**

TABLE 29: Marketings of Major Crops, Manitoba Crop Years 1984/85 to 1988/89

	All Wheat	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)
			thousand tonnes			
1984/85	3 266	80	1 327	137	365	474
1985/86	4 836	101	1 582	86	453	537
1986/87	3 455	85	1 010	39	447	526
1987/88	3 429	102	841	46	315	493
1988/89	2 289	94	647	50	187	545
			thousand bushels			
1984/85	120,006	5,187	60,949	5,393	14,369	20,900
1985/86	177,694	6,549	72,661	3,386	17,834	23,677
1986/87	126,951	5,511	46,389	1,535	17,597	23,192
1987/88	125,995	6,627	38,623	1,819	12,401	21,729
1988/89	84,092	6,115	29,694	1,980	7,342	24,017

SOURCE: Statistics Canada; Agriculture Canada (C.G.C.).

TABLE 30: Permit Holders, Quota Areas, Manitoba, 1984/85 to 1988/89

	Permit Book Holders	Quota Areas	
		Hectares	Acres
		thousands	
1984/85	24,907	5 939	14,676
1985/86	24,641	6 064	14,984
1986/87	23,904	5 956	14,718
1987/88	24,811	6 054	14,960
1988/89	24,368	5 848	14,451

SOURCE: Agriculture Canada - Grain Elevators in Canada

TABLE 31: Estimated Gradings of Wheat and Barley, 1987/88, 1988/89

	Bread Wheat (per cent)	
	1987/88	1988/89
No. 1 C.W.R.S	10.9	72.7
No. 2 C.W.R.S	40.9	20.1
No. 3 C.W.R.S	41.3	3.1
No. 1 & 2 Utility	1.3	1.2
Canada Prairie Spring	1.5	1.7
Canada Feed	3.5	0.9
Others	0.6	0.3
TOTAL ALL GRADES	**100.0**	**100.0**

	Durum Wheat (per cent)	
	1987/88	1988/89
No. 1 C.W. Amber Durum	—	0.8
No. 2 C.W. Amber Durum	—	41.3
No. 3 C.W. Amber Durum	22.7	52.1
No. 4 C.W. Amber Durum	66.4	5.8
No. 5 C.W. Amber Durum	10.9	—
TOTAL ALL GRADES	**100.0**	**100.0**

Barley Gradings, 1987/88, 1988/89

	Percentage of Deliverable Quantities on Farms Crop Years	
	1987/88	1988/89
Grade	%	
Special Select	3.1	4.9
Select	6.8	16.7
1 C.W.	82.1	76.3
2 C.W. and Lower	8.0	2.1
TOTAL ALL GRADES	**100.0**	**100.0**

SOURCE: Canadian Wheat Board - unpublished

*** Grading designations were changed for the 1987-88 crop year as follows:**

Regular Pool Barley

1CW 6-Row, 1CW 2-Row, 2CW 6-Row, 2CW 2-Row, 1Feed	1CW
2Feed, 3Feed	2CW

Designated Barley

1CW 2-Row, 2CW 2-Row	Special Select CW 2-Row
1CW 6-Row, 2CW 6-Row	Special Select CW 6-Row

1Feed 2-Row — Select CW 2-Row
1Feed 6-Row — Select CW 6-Row

TABLE 32: Average Protein Content of Spring Wheat in Manitoba, 1988, 1989

Per cent Protein in Wheat No. 1 C.W.R.S.
(13.5% moisture content basis)

Crop District	1988 Mean	1988 Range	1989 Mean	1989 Range
1	15.1	12.0 - 17.2	15.5	10.7 - 19.2
2	15.0	11.8 - 18.5	15.4	12.0 - 18.5
3	14.4	11.1 - 16.9	15.3	10.6 - 18.8
4	14.0	10.8 - 17.0	14.6	10.5 - 18.4
5	13.5	11.5 - 15.9	14.1	10.3 - 17.6
6	14.2	11.1 - 16.3	14.3	11.0 - 17.3
7	15.0	10.7 - 18.7	14.6	10.8 - 17.7
8	15.1	11.8 - 18.0	15.2	11.4 - 18.3
9	14.6	10.8 - 16.8	14.2	11.3 - 16.3
10	—	—	—	—
11	14.1	10.2 - 16.5	14.0	10.9 - 16.2
12	14.4	11.3 - 18.2	14.2	11.0 - 16.2
PROVINCE	**14.8**	**10.2 - 18.7**	**14.8**	**10.3 - 19.2**

SOURCE: Agriculture Canada (C.G.C.), Grain Research Laboratory.

TABLE 33: Canadian Wheat Board Monthly Average Cash Grain Prices, Basis In-Store Lower St. Lawrence, 1988-1989

A. 1988/89 Wheat Crop Prices

-Dollars per Tonne at St. Lawrence-
-Wheat Board Quotations-

Grade	1988 Aug.	Sept.	Oct.	Nov.	Dec.	1989 Jan.	Initial Payment 1988-89
1 C.W. Red Spring 13.5%	250.84	248.03	244.08	243.75	247.31	253.26	172.21
2 C.W. Red Spring 13.5%	245.24	242.43	238.48	238.15	241.71	247.66	165.21
3 C.W. Red Spring	235.24	232.43	228.48	228.15	231.71	237.66	150.21
No. 1 Canada Utility	231.24	228.43	224.48	224.15	227.71	233.66	154.21
No. 2 Canada Utility	223.24	220.43	216.48	216.15	219.71	225.66	137.21
1 C.W. Amber Durum	302.09	292.81	288.29	291.48	279.77	277 43	190.00
2 C.W. Amber Durum	297.09	287.81	283.29	286.48	274.77	272.43	187.00
3 C.W. Amber Durum	292.09	282.81	278.29	281.48	269.77	267.43	185.00

Grade	1989 Feb.	March	April	May	June	July	Average
1 C.W. Red Spring 13.5%	251.84	251.04	245.66	248.61	243.68	241.17	247.49
2 C.W. Red Spring 13.5%	246.24	245.44	240.06	243.01	238.08	235.57	241.84
3 C.W. Red Spring	236.24	235.44	230.06	233.01	228.08	225.57	231.84
No. 1 Canada Utility	232.24	231.44	226.06	229.01	224.08	221.57	227.84
No. 2 Canada Utility	224.24	223.44	218.06	221.01	216.08	213.57	219.84
1 C.W. Amber Durum	278.42	278.94	271.70	264.62	251.43	235.99	276.08
2 C.W. Amber Durum	273.42	273.94	266.70	259.62	246.43	230.99	271.04
3 C.W. Amber Durum	268.42	268.94	261.70	254.62	241.43	225.99	266.07

B. 1988/89 Oat Crop Prices

-Dollars per Tonne at Thunder Bay-
-Winnipeg Commodity Exchange Cash Quotations-

Grade	1988 Aug.	Sept.	Oct.	Nov.	Dec.	1989 Jan.	Initial Payment 1988-89
1 C.W	159.19	159.46	157.18	152.05	147.76	152.48	165.00
2 C.W	159.19	159.46	157.18	152.05	147.76	152.48	163.00
3 C.W	159.19	159.46	157.18	152.05	147.76	152.48	160.00
4 C.W	155.73	156.35	153.68	148.55	144.26	148.98	154.00
Mixed Grain C.W	149.95	—	—	—	—	—	—

	1989 Feb.	March	April	May	June	July	Average
1 C.W	150.65	147.18	137.98	142.00	124.02	117.63	145.63
2 C.W	150.65	147.18	137.98	142.00	124.02	117.63	145.63
3 C.W	150.65	147.18	137.98	142.00	124.02	117.63	145.63
4 C.W	147.15	143.68	133.06	137.00	119.30	112.63	141.70
Mixed Grain C.W	—	—	—	—	—	—	—

C. 1988/89 Barley Crop Prices

-Dollars per Tonne at ThunderBay-
-Winnipeg Commodity Exchange Cash Quotations-

Grade	1988 Aug.	Sept.	Oct.	Nov.	Dec.	1989 Jan.	Initial Payment 1988-89
1 C.W	121.98	125.44	125.69	123.59	125.41	123.28	120.00
2 C.W	121.03	124.44	124.69	122.59	124.41	122.28	117.00
Mixed Grain C.W	112.39	115.44	115.69	113.59	115.41	113.28	—

	1989 Feb.	March	April	May	June	July	Average
1 C.W	119.25	121.14	112.73	113.40	116.03	113.33	120.36
2 C.W	118.25	120.14	111.68	112.40	115.03	112.33	119.11
Mixed Grain C.W	109.25	111.14	102.73	103.40	106.03	103.28	110.14

D. 1988/89 Canola (Rapeseed) Crop Prices

-Dollars per Tonne at Thunder Bay-
-Winnipeg Commodity Exchange Cash Quotations-

Grade	1988 Aug.	Sept.	Oct.	Nov.	Dec.	1989 Jan.
1 Canada	361.48	360.03	329.99	313.99	325.55	300.98
2 Canada	348.48	347.03	318.19	300.99	312.55	287.98

	1989 Feb.	March	April	May	June	July	Average
1 Canada	303.71	317.25	319.00	317.50	289.94	287.73	318.93
2 Canada	290.71	304.25	306.75	304.50	276.94	274.73	306.09

E. 1988/89 Flaxseed Crop Prices

-Dollars per Tonne at Thunder Bay-
-Winnipeg Commodity Exchange Cash Quotations-

Grade	1988 Aug.	Sept.	Oct.	Nov.	Dec.	1989 Jan.
1 Canada Western	392.15	443.46	418.95	380.30	389.33	408.19
2 Canada Western	390.15	441.46	416.95	378.30	387.18	406.19
3 Canada Western	357.15	408.93	383.95	344.63	354.28	373.19

Grade	1989 Feb.	March	April	May	June	July	Average
1 Canada Western	403.16	401.50	375.79	355.68	331.77	338.76	386.59
2 Canada Western	401.16	399.50	376.29	353.68	329.77	336.76	384.78
3 Canada Western	368.16	366.50	343.29	320.68	296.77	303.76	351.77

F. 1988/89 Rye Crop Prices

-Dollars per Tonne at Thunder Bay-
-Winnipeg Commodity Exchange Cash Quotations-

Grade	1988 Aug.	Sept.	Oct.	Nov.	Dec.	1989 Jan.
1 Canada Western	151.87	155.73	149.15	155.30	150.95	148.84
2 Canada Western	149.87	153.73	147.15	153.30	148.95	146.84
3 Canada Western	121.87	125.73	118.90	123.34	121.40	118.84

Grade	1989 Feb.	March	April	May	June	July	Average
1 Canada Western	151.40	154.29	138.02	134.30	122.47	113.28	143.80
2 Canada Western	149.40	152.29	136.02	132.30	120.47	111.28	141.80
3 Canada Western	121.40	124.29	108.02	104.30	92.47	83.28	116.41

TABLE 34A: Grain Stored in Country Elevators at July 31, Manitoba

Year	All Wheat	Oats	Barley	Flaxseed	Canola (Rapeseed)	Rye
			tonnes			
1975-76	220 300	75 000	77 200	75 600	46 600	34100
1976-77	225 400	43 300	225 400	37 500	9 700	48900
1977-78	480 900	75 700	129 700	106 800	29 200	37800
1978-79	497 400	58 600	96 900	84 900	70 600	32300
1979-80	327 900	7 800	45 800	130 600	97 500	38500
1980-81	266 200	14 900	218 300	54 500	61 500	21900
1981-82	231 700	14 700	94 600	35 300	40 200	25800
1982-83	420 400	15 800	138 900	86 900	24 900	52800
1983-84	374 000	9 500	57 600	20 800	4 300	43500
1984-85	82 400	14 800	115 300	20 400	43 900	46300
1985-86	375 300	26 700	130 000	34 900	44 700	21500
1986-87	627 600	14 900	64 600	60 400	16 000	17600
1987-88	265 400	13 500	118 400	40 600	19 100	25900
1988-89	138 700	10 900	182 400	23 500	43 600	20000

SOURCE: Canadian Grain Commission. Visible Grain Supplies and Disposition Crop Years 1975/1989.

TABLE 34B: Grain Stored in Country Elevators at July 31, Manitoba

Year	All Wheat	Oats	Barley	Flaxseed	Canola (Rapeseed)	Rye
			- million bushels -			
1975-76	8.1	4.9	3.5	3.0	2.1	1.3
1976-77	8.3	2.8	10.4	1.5	0.43	1.9
1977-78	17.7	4.9	6.0	4.2	1.3	1.5
1978-79	18.3	3.8	4.4	3.3	3.1	1.3
1979-80	12.0	0.51	2.1	5.1	4.3	1.5
1980-81	9.8	1.0	10.0	2.1	2.7	0.86
1981-82	8.5	1.0	4.3	1.4	1.8	1.0
1982-83	15.4	1.0	6.4	3.4	1.1	2.1
1983-84	13.7	0.62	2.6	0.82	0.19	1.7
1984-85	3.0	1.0	5.3	0.8	1.9	1.8
1985-86	13.8	1.7	6.0	1.4	2.0	0.85
1986-87	23.1	1.0	3.0	2.4	0.71	0.69
1987-88	9.8	0.88	5.4	1.6	0.84	1.0
1988-89	5.1	0.71	8.4	0.9	1.9	0.79

SOURCE: Agriculture Canada; Statistics Canada.

TABLE 35A: Total Grain Supply on Farms by Crop Year, Manitoba

Crop Year	All Wheat	Oats	Barley	Flaxseed	Canola (Rapeseed)	Rye
			- tonnes -			
Stocks on Farms, July 31, 1989	260 000	80 000	310 000	60 000	20 000	10 000
Production, 1988/89	2 401 000	224 000	1 089 000	198 000	612 000	58 400
Total Farm Supply						
1988-89	2 661 000	304 000	1 399 000	258 000	632 000	68 400
1987-88	4 477 000	496 000	2 098 000	456 000	595 000	71 000
1986-87	4 518 000	563 000	1 981 000	614 000	598 000	86 000
1985-86	5 266 000	605 000	2 596 000	562 000	640 000	177 000
1984-85	3 812 000	507 000	2 008 000	444 000	546 000	201 000
1983-84	3 520 000	511 000	1 964 000	342 000	407 000	188 000
1982-83	3 971 000	584 000	2 573 000	447 000	413 000	228 000
1981-82	3 381 000	493 000	2 395 000	275 000	352 000	183 000
1980-81	2 232 000	324 000	1 699 000	287 000	386 000	95 000
1979-80	3 157 000	432 000	1 807 000	511 000	633 000	131 000
1978-79	3 320 000	817 000	2 286 000	356 000	585 000	112 000
1977-78	3 320 000	1 040 000	2 134 000	343 000	295 000	86 000
1976-77	2 885 000	1 033 000	1 568 000	170 000	152 000	76 000

SOURCE: Statistics Canada; Agriculture

TABLE 35B: Total Grain Supply on Farms by Crop Year, Manitoba

Year	All Wheat	Oats	Barley	Flaxseed	Canola (Rapeseed)	Rye
			- million bushels -			
Stocks on Farms, July 31, 1989	9.6	5.2	14.2	2.4	0.88	0.40
Production, 1988/89	88.2	14.5	50.0	7.8	27.0	2.3
Total Farm Supply						
1988-89	97.8	19.7	64.3	10.2	27.9	2.7
1987-88	164.5	32.2	96.3	18.0	26.2	2.8
1986-87	166.0	36.5	91.0	24.2	26.4	3.4
1985-86	193.5	39.2	119.2	22.1	28.2	7.0
1984-85	140.1	32.9	92.2	17.5	24.1	7.9
1983-84	129.3	33.1	90.2	13.5	17.9	7.4
1982-83	145.9	37.9	118.2	17.6	18.2	9.0
1981-82	124.2	32.0	110.0	10.8	15.5	7.2
1980-81	82.0	21.0	78.0	11.3	17.0	3.7
1979-80	116.0	28.0	83.0	20.1	27.9	5.2
1978-79	122.0	53.0	105.0	14.0	25.8	4.4
1977-78	122.0	68.0	98.0	13.5	13.0	3.4
1976-77	106.0	67.0	72.0	6.7	6.7	3.0

SOURCE: Statistics Canada; Agriculture Canada.

TABLE 36: GRAIN STORAGE CAPACITY IN MANITOBA, August 1, 1988 - 1989

Kind of Elevator	All Licensed Elevators 1988 Number	1988 Capacity (000 tonnes)	1989 Number	1989 Capacity (000 tonnes)
Terminal	3	197.1	3	197.1
Process Elevators	11	142.1	9	133.2
Primary	284	1 104.5	272	1 071.9
TOTAL - Licensed Elevators	**298**	**1 443.6**	**284**	**1 402.2**
		(000 bushels)		(000 bushels)
Terminal	3	7,038.4	3	7,038.4
Process Elevators	11	5,074.4	9	4,756.6
Primary	284	39,441.7	272	38,277.5
TOTAL - Licensed Elevators	**298**	**51,554.5**	**284**	**50,072.6**

SOURCE: Agriculture Canada

LIVESTOCK PRODUCTION

CATTLE

Production Value

During the past year, the production value of Manitoba cattle decreased by $45.0 million from $290.0 million in 1988 to $245.0 million in 1989. The estimated average value per animal decreased from $734 to $634 while production decreased from 395,200 head to 386,000 head. The sale of lighter-weight animals and lower cattle prices were the main reasons for the lower value per head in 1989.

Marketings

Including estimated sales to Alberta and Saskatchewan, net commercial marketings of Manitoba origin cattle and calves decreased by 46,520 head from 1988, to total 378,330 in the current year. Marketings of slaughter cattle to Manitoba packers decreased by 28,410 head whereas marketings of slaughter calves increased by 160 head. Recorded shipments of Manitoba origin feeder cattle to the U.S. and Eastern Canada were 92,300 head, a decrease of 10,600 head from a year earlier. Export sales of Manitoba slaughter cattle and calves to Ontario, Quebec, Saskatchewan, Alberta and the U.S., decreased from 157,000 head in 1988 to 119,700 in 1989. Estimated 1989 marketings of Manitoba feeder cattle and calves to Alberta and Saskatchewan were about 76,000 head, down from 1988.

TABLE 37: Slaughter Cattle Sold by Month: Manitoba Origin

Month	Slaughter Cattle	Slaughter Calves	TOTAL (excluding exports)
January	7,158	141	7,299
February	7,274	127	7,401
March	7,740	166	7,906
April	9,088	124	9,212
May	10,006	150	10,156
June	14,849	152	15,001
July	9,030	141	9,171
August	7,224	151	7,375
September	8,536	233	8,769
October	9,268	170	9,438
November	8,709	203	8,912
December	7,853	143	7,996
YEAR	**106,735**	**1,901**	**108,636**

SOURCE: Agriculture Canada

Disposal Sales

Of the total 123,853 cattle and 1,941 calves slaughtered in Manitoba during 1989, more than 28 per cent came from Saskatchewan. Of the total cattle slaughtered, 82 per cent were sold directly to packing plants on a rail grade basis and 18 per cent were marketed through public stockyards and auction markets. A total of 20,075 cattle were marketed through the Manitoba Beef Commission until the termination of the Manitoba Beef Plan on June 30, 1989. In addition to the 108,636 Manitoba-produced cattle and calves slaughtered in Canada, about 59,000 slaughter cattle and calves were exported to the United States.

Inventory

There were 1,065,000 head of cattle and calves on Manitoba farms as of July 1, 1989. This was a decrease of 0.9 per cent from the 1988 level. Beef cows increased by 5,000 head or 1.3 per cent over the year, while replacement heifers, slaughter heifers, steers and calves were up by 3.1 per cent, down by 18.2 per cent, down by 14.7 per cent, and up by 1.3 per cent respectively. The increased out-movement of calves and feeder cattle in 1988 and early 1989 contributed to the decline in cattle being kept for slaughter in 1989.

TABLE 38: Cattle Numbers on Manitoba Farms, June 3, 1986

Crop District	Bulls	Cows (milk)	Cows (beef)	Heifers Over 1 yr (milk)	Heifers Over 1 yr (beef) (slaughter/ replacement)	Steers Over 1 Year	Calves Under 1 Year	TOTAL
1	1,846	2,247	34,676	711	12,039	10,451	32,906	94,876
2	2,514	4,808	43,114	2,034	15,670	18,099	42,588	128,827
3	1,877	4,021	36,359	1,406	11,682	10,967	34,642	100,954
4	1,378	1,760	23,389	480	7,001	5,609	21,918	61,535
5	621	786	13,089	227	4,025	3,838	11,764	34,350
6	2,706	2,566	56,921	893	15,470	12,011	51,832	142,399
7	1,948	6,737	37,494	4,183	13,177	15,523	37,738	118,800
8	1,835	7,792	26,625	3,384	11,346	16,878	29,155	97,015
9	1,187	18,700	13,351	9,411	6,485	6,944	21,229	77,307
10	575	2,420	10,041	1,110	2,816	1,745	9,620	28,327
11	974	6,525	15,272	3,248	6,058	6,156	16,385	54,618
12	3,025	4,605	67,795	2,147	20,304	16,545	61,291	175,712
PROVINCE	**20,486**	**64,967**	**378,126**	**29,234**	**126,073**	**124,766**	**371,068**	**1,114,720**

SOURCE: Statistics Canada.

TABLE 39: Beef Carcasses Graded in Federally & Provincially Inspected Packing Plants

	1988		1989	
	Number	%	Number	%
Grade:				
A1	99,067	54.6	72,269	58.4
A2	33,374	18.4	16,538	13.4
A3	4,937	2.7	2,058	1.7
A4	875	0.5	354	0.3
B1	3,700	2.0	2,500	2.0
B2	1,210	0.7	1,228	1.0
B3	1,266	0.7	1,113	0.9
C1	1,434	0.8	797	0.6
C2	464	0.3	251	0.2
D1	6,252	3.4	4,642	3.7
D2	5,717	3.1	3,072	2.5
D3	6,135	3.4	3,249	2.6
D4	678	0.4	479	0.4
E	393	0.2	269	0.2
Graded	**165,502**	**91.2**	**108,819**	**87.9**
Ungraded	15,992	8.8	15,034	12.1
TOTAL	**181,494**	**100.0**	**123,853**	**100.0**

SOURCE Agriculture Canada.

Replacement Cattle Marketed in Manitoba

In 1989, 346,100 feeder cattle marketings were recorded by Manitoba public stockyards and auction markets. This was an increase of almost 3 per cent from the previous year. Almost 282,300 feeder cattle and calves were sold through Manitoba's nine major stockyards and auction markets, while 63,800 replacement cattle were marketed through the eight smaller markets in the province. More than 76,400 feeder cattle and calves were shipped to eastern markets in 1989, a decrease of 16 per cent from 1988. Manitoba exported 15,900 feeders to the United States in 1989, up from 11,800 in 1988. It is estimated that about 55,000 and 21,000 Manitoba-produced feeder cattle and calves were purchased by Alberta and Saskatchewan buyers respectively in 1989. This number compares to an estimated 113,000 feeder cattle and calves moving west from Manitoba in 1988, 90,000 in 1987, 50,000 in 1986 and almost none in 1985 and previous years.

TABLE 40: Cattle Prices, Winnipeg Stockyards, 1989

	Cents per Kilogram Live	Dollars per 100 Pounds Live
SLAUGHTER CATTLE AND CALVES		
STEERS		
A1,A2 + 450 kg (+ 1,000 lb)	176.98	80.28
A1,A2 -450 kg (-1,000 lb)	—	—
A3,A4	148.74	67.47
B and C	146.41	66.41
HEIFERS		
A1,A2 + 400 kg (+ 850 lb)	172.62	78.30
A1,A2 -400 kg (-850 lb)	-	-
A3,A4	145.63	66.06
B and C	144.29	65.45
COWS		
D1,D2	120.72	54.76
D3	117.17	53.15
D4	105.09	47.67
BULLS	153.31	69.54
SLAUGHTER CATTLE AVERAGE	**135.76**	**61.58**
CALVES		
Good Veal	244.38	110.85
Good Butcher	207.12	93.95
Common All Weights	181.35	82.26
SLAUGHTER CALVES AVERAGE	**201.76**	**91.52**
FEEDERS		
GOOD STEERS		
+ 400 kg (+ 900 lb)	186.35	84.53
350-400 kg (800-900 lb)	190.56	86.44
300-350 kg (700-800 lb)	201.94	91.60
250-300 kg (600-700 lb)	214.88	97.47
Common and Medium + 250 kg (+ 600 lb)	168.65	76.50
GOOD STEER CALVES		
200-250 kg (500-600 lb)	233.97	106.13
150-200 kg (400-500 lb)	246.54	111.83
Under 150 kg (under 400 lb)	252.12	114.36
Common and Medium -250 kg (-600 lb)	179.83	81.57
GOOD HEIFERS		
+ 350 kg (+ 800 lb)	180.73	81.98
300-350 kg (700-800 lb)	187.92	85.24
250-300 kg (600-700 lb)	196.27	89.03
200-250 kg (500-600 lb)	211.46	95.92
Common and Medium + 200 kg (+ 500 lb)	161.64	73.32
GOOD HEIFER CALVES		
150-200 kg (400-500 lb)	222.49	100.92
100-150 kg (300-400 lb)	248.19	112.58
Under 100 kg (under 300 lb)	231.97	105.22
Common and Medium -200 kg (-500 lb)	169.66	76.96
FEEDER COWS	131.79	59.78
FEEDER CATTLE AVERAGE	**195.19**	**88.54**

SOURCE: Agriculture Canada

Prices

The weighted average price for top grade steers in 1989 decreased by less than 1 per cent from 1988 while that of D1,2 cows was down by 1.2 per cent. The weighted average price for the first nine months (Jan.-Sept.) in 1989 for good veal calves was $110.85/cwt. This compares with the weighted average price in 1988 of $120.17/cwt. The weighted average price for good feeder steers over 400 kilograms (900 pounds) in 1989, was up by 0.5 per cent from 1988.

TABLE 41A: Winnipeg Stockyards Prices

- Selected Grades -
- cents per kilogram -

	A1,2 Steers			D1,2 Cows			Feeder Steers 350-400 kilograms			Good Veal Calves		
Month	**5 Yr.**	**1988**	**1989**	**5 Yr.**	**1988**	**1989**	**5 Yr.**	**1988**	**1989**	**5 Yr.**	**1988**	**1989**
January	173.6	170.7	176.3	111.3	125.6	114.9	180.8	199.3	190.5	236.3	286.3	223.2
February	173.1	176.9	182.3	117.3	124.1	121.1	183.1	208.3	189.7	237.3	283.5	233.7
March	173.9	177.9	185.0	120.6	130.1	121.3	182.5	203.6	190.8	243.5	275.7	250.2
April	175.0	186.8	176.9	117.7	130.0	117.6	183.1	205.5	187.3	238.7	272.4	219.5
May	179.3	190.7	177.1	120.7	132.4	121.4	183.1	200.1	187.4	245.6	283.8	228.0
June	174.6	181.9	173.1	121.8	121.7	125.2	179.1	186.7	187.2	243.4	267.0	249.5
July	168.9	167.2	175.4	122.6	124.2	130.7	177.4	184.9	190.1	246.4	249.6	262.2
August	169.9	168.5	177.1	120.7	124.6	124.4	181.6	188.9	198.3	244.6	249.0	267.9
September	173.1	174.9	175.3	118.9	122.2	127.1	185.7	196.1	193.7	236.2	240.1	250.5
October	173.5	167.2	176.4	112.5	115.4	118.6	184.2	191.1	193.3	223.5	—	—
November	176.4	165.1	179.9	109.0	112.3	113.9	181.0	188.4	188.5	232.2	—	—
December	175.5	167.8	178.1	112.0	112.4	118.6	183.2	187.4	191.8	239.1	—	—
YEAR	**175.0**	**178.0**	**177.0**	**116.6**	**122.2**	**120.7**	**182.9**	**196.5**	**190.6**	**241.0**	**264.9**	**244.4**

TABLE 41B: Winnipeg Stockyards Prices

- Selected Grades -
- dollars per 100 pounds -

	A1,2 Steers			D1,2 Cows			Feeder Steers 800-900 pounds			Good Veal Calves		
Month	**5 Yr.**	**1988**	**1989**	**5 Yr.**	**1988**	**1989**	**5 Yr.**	**1988**	**1989**	**5 Yr.**	**1988**	**1989**
January	78.74	77.45	79.97	50.50	57.00	52.12	82.02	90.44	86.42	107.18	129.89	101.25
February	78.54	80.26	82.71	53.20	56.29	54.92	83.04	94.49	86.07	107.62	128.65	106.00
March	78.87	80.73	83.91	54.69	59.05	55.02	82.78	92.37	86.55	110.46	125.08	113.50
April	79.38	84.77	80.22	53.39	59.00	53.35	83.07	93.22	84.94	108.26	123.60	99.57
May	81.31	86.53	80.34	54.76	60.06	55.06	83.04	90.79	85.00	111.42	128.75	103.42
June	79.19	82.53	78.52	55.26	55.24	56.79	81.26	84.72	84.93	110.42	121.15	113.17
July	76.63	75.87	79.57	55.60	56.34	59.30	80.48	83.89	86.24	111.76	113.23	118.93
August	77.06	76.43	80.31	54.77	56.53	56.45	82.36	85.73	89.95	110.95	112.96	121.50
September	78.53	79.35	79.50	53.92	55.45	57.63	84.24	88.98	87.88	107.12	108.96	113.61
October	78.70	75.87	80.00	51.02	52.34	53.79	83.57	86.71	87.69	101.40	—	—
November	80.02	74.91	81.59	49.43	50.95	51.68	82.09	85.50	85.51	105.33	—	—
December	79.61	76.12	80.79	50.82	51.02	53.81	83.11	85.01	86.98	108.46	—	—
YEAR	**79.36**	**80.76**	**80.28**	**52.88**	**55.45**	**54.76**	**82.96**	**89.17**	**86.44**	**109.31**	**120.17**	**110.85**

SOURCE: Agriculture Canada.

HOGS

Production

In 1989, Manitoba farmers produced 2,177,700 hogs, an increase of 0.6 per cent from 1988. A decrease in the average value per head was partly offset by the improvement in production volume resulting in a $19 million decrease in total value of production below the 1988 value. Hogs produced in Manitoba were valued at an estimated $219 million in 1989.

Marketings

Manitoba producers marketed 127,900 more hogs for slaughter in Canada in 1989 than in 1988. Hog marketings in all months, other than December, exceeded corresponding levels in 1988. The largest monthly increase in marketings, 18.9 per cent, occurred in February, 1989. According to Manitoba Pork, Est., 150,503 weanlings and 81,803 mature hogs were exported to the United States in 1989.

TABLE 42: Slaughter Hog Marketings by Month (excluding exports)

Month	- Animals from Manitoba - 1987	1988	1989
January	134,616	141,527	157,086
February	130,239	131,820	156,793
March	168,889	159,815	186,679
April	124,692	145,236	165,029
May	125,839	132,103	146,388
June	142,765	162,861	178,282
July	118,233	137,621	142,287
August	115,471	134,802	139,313
September	154,789	179,026	190,513
October	131,191	145,251	146,987
November	141,331	145,152	152,412
December	152,046	182,265	163,618
YEAR	**1,640,101**	**1,797,479**	**1,925,387**

SOURCE: Agriculture Canada

Inventory

The total number of hogs on Manitoba farms on July 1, 1989 was 1,230,000 head, a decrease of 1.6 per cent from the same date in 1988. Market hogs totalled 1,100,000, a decrease of 1.7 per cent or 19,000 head from 1988. Sow numbers on farms, at 122,000 head in 1989 were 0.8 per cent below the 1988 level.

TABLE 43: Hog Numbers on Farms, June 3, 1986

Crop District	Under 20 Kg (45 lb)	20 to 60 kg (45-130 lb)	Over 60 kg (130 lb)	Breeding Stock	Total
1	13,471	15,886	12,249	4,666	46,272
2	22,305	22,708	23,746	8,871	77,630
3	16,470	16,629	13,818	6,162	53,079
4	1,650	1,097	624	611	3,982
5	6,449	6,497	6,153	2,554	21,653
6	6,408	6,431	4,447	2,677	19,963
7	51,365	52,313	50,275	19,343	173,296
8	77,315	78,855	70,148	27,628	253,946
9	77,897	82,154	80,010	27,555	267,616
10	7,377	10,530	8,807	2,794	29,508
11	25,534	30,113	27,827	9,799	93,273
12	9,815	8,799	8,852	3,511	30,977
PROVINCE	**316,056**	**332,012**	**306,956**	**116,171**	**1,071,195**

SOURCE: Statistics Canada

Quality

The general quality of Manitoba hogs increased in 1989 relative to 1988. The percentage of market hogs indexing 100 or better increased to 82.9 per cent from 80.9 per cent in 1988.

Prices

Lower hog prices in the United States until mid 1989 affected the Manitoba market. However, reduced U.S. hog supplies and increased exports of hogs and pork improved North American hog prices during the second half of the year. The highest average price received for Index 100 hogs was 144.0 cents per kilogram ($65.32 per hundredweight) in August. The average annual price of Index 100 hogs in 1989 was 130.0 cents per kilogram ($58.97 per hundredweight), down 2.0 per cent from 1988 and 17.1 per cent below the five-year average (1984-1988).

TABLE 44A: Manitoba Monthly Average Weighted Hog Prices, 1987 - 1989

- cents per kilogram -

Month	Index 100			Sows		
	1987	1988	1989	1987	1988	1989
January	168.0	135.3	120	106.4	78.8	84
February	170.9	142.3	122	109.7	91.1	81
March	157.7	134.7	114	107.5	82.0	82
April	160.5	132.9	111	105.3	84.3	75
May	184.6	143.9	121	131.0	89.1	78
June	199.7	151.5	135	114.1	84.6	88
July	203.3	138.2	141	133.9	66.9	83
August	200.2	132.9	144	127.9	70.4	83
September	184.9	127.6	134	123.2	73.2	83
October	166.4	120.5	140	110.5	71.9	94
November	139.9	117.7	137	87.6	64.0	91
December	140.9	118.1	135	109.5	62.6	94
YEAR	**172.3**	**132.7**	**130**	**116.9**	**76.9**	**84**

SOURCE: Agriculture Canada

TABLE 44B: Manitoba Monthly Average Weighted Hog Prices, 1987 - 1989

- dollars per 100 pounds -

Month	Index 100			Sows		
	1987	1988	1989	1987	1988	1989
January	76.20	61.36	54.43	48.26	35.74	38.10
February	77.52	64.54	55.34	49.76	41.30	36.74
March	71.53	61.09	51.71	48.76	37.20	37.19
April	72.80	60.27	50.35	47.76	38.24	34.02
May	83.73	65.26	54.89	59.42	40.42	35.38
June	90.58	68.71	61.24	51.76	38.37	39.92
July	92.21	62.68	63.96	60.74	30.35	37.65
August	90.81	60.27	65.32	58.02	31.93	37.65
September	83.87	57.87	60.78	55.88	33.20	37.65
October	75.48	54.65	63.50	50.12	32.61	42.64
November	63.46	53.38	62.14	39.74	29.03	41.28
December	63.91	53.56	61.24	49.67	28.40	42.64
YEAR	**78.16**	**60.19**	**58.97**	**53.03**	**34.88**	**38.10**

SOURCE: Agriculture Canada

SHEEP AND LAMBS

Slaughterings and Exports

Supply disposition balance sheet estimates indicate that live exports and slaughterings of sheep and lambs in Manitoba totaled 20,300 for 1989 compared to 21,100 in 1988. Of these, 4,751 were slaughtered in federally or provincially inspected packing plants compared with 4,738 in 1988. About 9,700 sheep and lambs were exported to the U.S. from Manitoba in 1989 compared to 9,600 in 1988. Sales of sheep and lambs were valued at $1.148 million, in 1989 down from $1.698 in 1988.

TABLE 45: Recorded Sheep and Lamb Marketings from Manitoba

Month	1986	1987	1988	1989
January	416	295	225	259
February	298	260	185	271
March	561	306	337	446
April	353	346	638	282
May	457	277	370	328
June	635	397	315	443
July	382	290	342	334
August	376	357	373	358
September	427	425	560	579
October	435	330	385	438
November	350	358	478	399
December	563	475	530	614
YEAR	**5,253**	**4,116**	**4,738**	**4,751**

SOURCE Agriculture Canada

Prices

Prices in 1989 for all grades of animals averaged $1.40 per kilogram ($63.36 per hundredweight). The average price for A and B lambs, 36 kilograms (80 pounds) and over, is $1.57 per kilogram ($71.09 per hundredweight). The five-year average is $1.71 per kilogram ($77.75 per hundredweight).

Wool Production

The total farm value of shorn wool production in 1989 was estimated at $76,000, a decrease of 9.5 per cent from the 1988 value of $84,000. The average price received by producers was approximately $1.47 per kilogram (66.5 cents per pound). Production was 51 700 kilograms (114,000 pounds), an increase of 16.7 per cent from the 1988 production.

DAIRY

Farm sales of milk in 1989 were estimated at 301 665 kilolitres, a decrease of 3.0 per cent from 1988. Cash receipts for all milk sold off the farm totalled $131,825,000, up 2.1 per cent from 1988. Supplementary payments decreased by 3.2 per cent below the 1988 level of $10,980,000.

The volume of milk sold for fluid purposes was 115 829 kilolitres in 1989, 1.3 per cent lower than in 1988. This represented 38.4 per cent of all sales in 1989, an increase of 1.9 per cent over 1988. Fluid sales generated 51.1 per cent of total milk and cream cash receipts sold off the farm in 1989 compared to the 49.1 per cent contribution in 1988.

By comparison, the volume of milk and cream sold off the farm for industrial use amounted to 185 836 kilolitres in 1989, representing 61.6 per cent of total sales compared to the 1988 figure of 62.3 per cent. In 1989, off-farm sales for industrial use contributed $65.0 million to milk and cream receipts, (47.7 per cent) compared to 49.9 per cent contribution in 1988.

TABLE 46: Volume of Milk and Cream Sold Off Farm

	Sold for Fluid	Sold for Industrial Use		Total Volume of Sales
		Delivered as Milk	Delivered as Cream	
	kilolitres			
1985	110 811	147 466	31 514	289 791
1986	114 028	147 843	29 446	291 317
1987	116 509	157 318	32 812	306 639
1988	117 298	161 945	31 868	311 111
1989	115 829	155 666	30 170	301 665

SOURCE Statistics Canada, Cat. No. 23-001

TABLE 47: Cash Receipts from Milk and Cream Sold Off Farm

	Sold for Fluid Uses	Sold for Industrial Uses: Delivered As Milk	Sold for Industrial Uses: Delivered As Cream	Total Farm Sales	Supplementary Payments	Total Cash Receipts
	thousands of dollars					
1985	54,817	42,894	4,659	102,370	10,935	113,305
1986	56,474	45,891	4,417	106,782	10,628	117,410
1987	56,477	48,775	4,994	110,246	11,071	121,317
1988	57,993	55,167	5,025	118,185	10,980	129,165
1989	61,933	54,127	5,141	121,201	10,624	131,825

SOURCE: Statistics Canada, Cat. No. 23-001.

Creamery Butter Production

In 1989 butter production was 4 285 tonnes, a decrease of 4.9 per cent over the 1988 value of 4 508 tonnes. The monthly average production was 357.1 tonnes in 1989 compared with 375.5 tonnes in 1988.

Cheddar Cheese Production

Cheddar cheese production in 1989 was 6 192 tonnes, up 1.5 per cent higher than the 1988 level of 6 100 tonnes. The ice-cream mix totalled 8 317 tonnes, slightly up from the 8 256 tonnes produced in 1988 and represents approxi- mately one-half the actual ice-cream volume; two parts of ice-cream are made from one part of mix.

TABLE 48: Dairy Factory Production by Month, 1989

Month	Creamery Butter (tonnes)	Cheddar Cheese (tonnes)	Ice-Cream Mix (kilolitres)
January	391	591	427
February	369	570	508
March	370	590	791
April	374	519	804
May	398	527	862
June	347	557	920
July	283	436	975
August	315	481	730
September	346	450	688
October	363	494	612
November	378	456	512
December	351	521	488
YEAR	**4 285**	**6 192**	**8 317**

SOURCE: Statistics Canada.

Total Milk Supply

Total milk production in the 1989 dairy year (August 1, 1988 to July 31, 1989) was 306.94 million litres, down 0.5 per cent from the 1988 level of 308.45 million litres. The milk production was 306.64 million litres in 1987.

The 1989 (dairy year) producer price for class 1 milk was $53.47 per hectolitre, up $4.03 per hectolitre from the price received in 1988.

Milk Cows

The number of milk cows on Manitoba farms as of July 1, 1989 was 66,000 head, a 1.5 per cent increase from the 1986 Census. Dairy replacement heifers on farms totalled 29,000, a 0.7 per cent decline from 1986.

POULTRY

The value of poultry, eggs and meat production was estimated at $132,217,000 in 1989. This was a 7.1 per cent increase from a year earlier. Eggs sold for consumption were less in number but greater in value. Hatching egg numbers and income advanced in both chicken and turkey categories. Chicken meat income rose 6.8 per cent based largely on higher prices. Turkey meat income rose 9.5 per cent based on increased prices and numbers. Goose production declined by 35 per cent and production of ducks dropped to near zero with the closing of the Brandon plant.

TABLE 49: SUMMARY OF POULTRY PRODUCTION

	- 1988* -			- 1989 -		
	Dozen (000)	Price (¢/doz)	Value ($000)	Dozen (000)	Price (¢/doz)	Value ($000)
EGGS						
Sold for consumption	52,238	88.8	46,387	51,433	101.6	52,256
Used on farms	434	88.8	385	449	101.6	456
Hatching (chicks)	2,350	263.0	6,180	2,424	293.0	7,102
	55,022		52,952	54,306		59,814
Hatching (turkeys)	324	723.0	2,342	354	782.0	2,768
TOTAL EGG VALUE			**55,294**			**62,582**
	Birds (000)	**Price ($ each)**	**Value ($000)**	**Birds (000)**	**Price ($ each)**	**Value ($000)**
MEAT						
Chicken:						
Broilers (under 1 kg)	835	0.97	809	1,296	1.24	1,607
Broilers (1-2 kg)	13,520	1.96	26,499	13,598	2.10	28,556
Roasters	1,882	3.88	7,302	1,610	4.31	6,939
Fowl	1,968	0.13	255	1,759	0.07	123
	18,205		34,865	18,263		37,225
Turkeys:						
Broilers	379	7.50	2,842	396	8.04	3,183
Hens	493	11.00	5,423	605	11.28	6,824
Heavies	506	16.72	8,460	441	17.73	7,819
	1,378		16,725	1,442		17,826
Geese	441	12.74	5,618	327	13.72	4,486
Ducks	299	4.75	1,420	3	4.25	13
TOTAL MEAT VALUE			**58,628**			**59,550**
Started Pullets	2,364	3.65	8,628	2,300	3.95	9,085
TOTAL POULTRY PRODUCTION			**122,550**			**131,217**

* Revised.

SOURCE: Statistics Canada, Cat. No. 23-203 and 23-003; Manitoba Agriculture.

In 1989, the weighted average egg price was 101.6¢ per dozen, 14.4 per cent above the average price of 88.8¢ per dozen last year. The monthly average delivered prices for all grades for 1984-1989 are shown below.

TABLE 50: Egg Prices to Producers, Winnipeg, 1984 - 1989

ALL GRADES

- cents per dozen delivered, ungraded -

Month	1984	1985	1986	1987	1988	1989
January	89.8	88.3	84.7	83.6	83.4	101.0
February	91.6	89.5	86.9	83.5	84.6	101.0
March	92.1	89.7	87.7	82.9	84.7	100.6
April	88.7	87.4	86.2	80.8	83.1	99.7
May	88.6	86.6	84.2	79.1	83.8	100.0
June	88.5	87.5	84.9	81.1	85.3	102.2
July	91.2	87.8	85.6	82.4	88.2	102.9
August	90.9	87.3	88.7	81.6	92.2	100.3
September	89.8	86.5	82.3	80.9	92.7	100.9
October	91.3	86.4	86.0	81.6	95.8	101.9
November	90.1	86.1	84.9	82.6	96.6	102.9
December	88.4	85.3	81.3	80.5	96.0	103.2
YEAR	**90.1**	**87.4**	**85.4**	**81.7**	**88.8**	**101.4**

SOURCE: Canadian Egg Marketing Agency

The average number of laying hens per month at year end on Manitoba farms was 2,407,000 in 1989 and 2,499,000 in 1988. The average production per bird at year end was at a rate of 269 eggs per bird per year in 1989 compared with 273 in 1988.

The egg quota allocation to Manitoba by the Canadian Egg Marketing Agency is shown below.

TABLE 51: Manitoba Egg Quota Allocation and Inventory, 1989

		LAYER NUMBERS	
Month	**Allocation**	**Inventory**	**%**
January	2,245,795	2,145,843	95.54
February	2,245,795	2,119,735	94.39
March	2,245,795	2,094,837	93.29
April	2,245,795	2,124,819	94.61
May	2,245,795	2,161,994	96.27
June	2,245,795	2,146,937	95.60
July	2,245,795	2,100,861	93.55
August	2,202,621	2,117,732	96.15
September	2,202,621	2,109,974	95.79
October	2,202,621	2,117,010	96.11
November	2,202,621	2,120,475	96.27
December	2,202,621	2,124,375	96.45
		2,123,716	95.34

SOURCE: Canadian Egg Marketing Agency.

OTHER LIVESTOCK

HORSES

The 1986 Census of Agriculture indicated 5,540 farms reported 40,691 horses and ponies. This figure represents an increase of 30 per cent over the 1981 Census figure of 31,284. It was estimated that 180 farms supplied pregnant mare's urine from 11,200 mares for a gross value of $12,053,000. The latter represented a decrease of 10.1 per cent in number of mares below 1986 and a corresponding 5.1 per cent decline in value. In 1989, it was estimated that 178 farms supplied pregnant mare's urine from 11,903 mares for a gross value of $16,023,500.

GOATS

The 1986 Census of Agriculture reported a total of 3,663 goats from 597 farms.

RABBITS

The 1986 Census of Agriculture reported a total of 643 rabbit farms with a rabbit population of 8,156.

OTHER PRODUCTS

FUR AND WILDLIFE

Pelts are obtained from both fur farms and wildlife sources. In the 1988/89 season 57,730 pelts were produced - 775 fox and 56,955 mink for a total farm value of $1,489,744. Fox pelts were obtained from 14 farms for a value of $50,320, reflecting a 46 per cent decline from 1988. Twenty-five mink farms produced mink pelts valued at $1,439,424, a fall of 20 per cent below 1988.

Wildlife pelts totalled 107,920 in 1989 only 28 per cent of 1988 number and with a market value of $2,259,584 was 58 per cent less than that of 1988.

The number of farmed and wildlife pelts fell 62 per cent below 1988 with overall fur value reflecting a decline of 49 per cent below 1988.

TABLE 52: Fur Statistics, 1985/86 to 1988/89[1]

Fur Farms	1985/86	1986/87	1987/88	1988/89
Fox:				
Pelts	1,522	926	820	775
Value	189,885	165,782	93,129	50,320
Number of Farms	16(M) 2(S)	16(M) 2(S)	16(M) 2(S)	14
Mink:				
Pelts	60,082	55,072	48,375	56,955
Value	1,616,195	2,380,315	1,810,329	1,439,424
Number of Farms	27(M) 2(S)	27(M) 2(S)	27(M) 2(S)	25
TOTAL PELTS	**61,604**	**55,998**	**49,195**	**57,730**
TOTAL VALUE	**1,806,080**	**2,546,097**	**1,903,458**	**1,489,744**
Wildlife:				
Pelts	230,051	353,791	391,744	107,920
Value	5,061,210	8,070,118	5,393,731	2,259,584
TOTAL FURS				
Pelts	**291,655**	**409,789**	**440,939**	**165,650**
Value	**6,867,290**	**10,616,215**	**7,297,189**	**3,749,328**

[1]Manitoba fur farm statistics for 1984 and 1985 include Saskatchewan figures (due to confidentiality requirements).

(M) Manitoba. (S) Saskatchewan.

SOURCE: Statistics Canada, Cat. No. 23-207

FOREST PRODUCTS

The value of production was estimated at $1,566,000 in 1989, up 3.0 per cent from the value of $1,516,000 in 1988. This was based on total commercial sales and included plywood and fence posts. The 1986 Census reported 124 217 hectares (306,948 acres) of woodlands compared to 284 184 hectares (613,277 acres) reported in the 1981 Census of Manitoba.

HONEY AND ALFALFA LEAFCUTTER BEES

During the late winter and early spring of 1989 beekeepers reported higher than normal winter losses. This resulted in increased numbers of divisions being made and a higher proportion of weaker colonies. Spring conditions were generally good for the build-up of colonies. Early summer conditions were favorable for honey production, however, dry weather and heat stress during mid-July cut the honey flow short resulting in overall less than average production, particularly in the south.

As a result of a less than average honey crop throughout North America and reduced honey inventories, prices for bulk honey sales increased during the fall and winter.

TABLE 53: Honey Prices and Production, Manitoba, 1988, 1989

	1988	1989
Number of Beekeepers	1,200	1,100
Number of Colonies	88,000	87,000
Honey:		
Average kg/hive	84	64
Average lb/hive	185	140
Total Production - kg	7 392 000	5 568 000
Total Production - lb	16,280,000	12,180,000
Price/kg - ¢	88	99
Price/lb - ¢	40	45
TOTAL VALUE	**$6,512,000**	**$5,481,000**
Beeswax:		
Production - kg	110 769	83 520
Production - lb	244,200	182,700
Price/kg - ¢	297	275
Price/lb - ¢	135	125
TOTAL VALUE	**$329,670**	**$228,375**
TOTAL VALUE HONEY AND BEESWAX	**$6,841,670**	**$5,709,375**

SOURCE: Manitoba Agriculture.

Alfalfa Leafcutter Bees. Alfalfa leafcutter bees are used in the pollination of alfalfa for seed production. Rainfall received during June provided much needed moisture to sustain normal crop development. However, the hot, dry conditions experienced throughout much of July and August, although providing excellent foraging conditions for leafcutter bees, served to shorten the length of the blooming period for alfalfa. As a result, Manitoba producers realized average bee production and average alfalfa seed production in 1989.

TABLE 54: Production of Leafcutter Bees and Alfalfa Seed

	1988	1989
Number of Leafcutter Beekeepers	189	210
Number of Leafcutter Bees	290,000,000	407,000,000
Price of Leafcutter Bees (per bee)	$0.0055	$0.005
TOTAL VALUE OF BEES	**$1,595,000**	**$2,035,000**
Alfalfa Seed - ha	10 342	11 332
Alfalfa Seed - ac	25,555	28,000
Alfalfa Seed Production - kg	3 175 200	4 500 000
Alfalfa Seed Production - lb	7,000,000	9,920,000
Price/kg	$2.09	$1.43
Price/lb	$0.95	$0.65
TOTAL VALUE OF SEED	**$6,650,000**	**$6,435,000**
TOTAL VALUE OF BEES AND SEED	**$8,245,000**	**$8,470,000**

NOTE: Statistics reflect total alfalfa seed acreage (pedigreed and common); i.e. alfalfa seed 10 342 hectares (25,555 acres).

SOURCE: Manitoba Agriculture.

RESOURCES

LAND AND FARMS

TABLE 55A: Land Use by Area in Hectares, Manitoba, 1986

Crop District	-IMPROVED LAND- Crops	Fallow	Pasture	Other	Total	-UNIMPROVED LAND- Pasture	Woodland	Other	TOTAL LAND
				- 000 hectares -					
1	524	40	22	8	594	114	3	29	740
2	524	54	32	10	620	179	7	51	857
3	464	89	28	10	591	155	14	80	840
4	186	56	22	5	269	78	9	37	393
5	190	31	15	4	240	59	8	31	338
6	351	55	37	9	452	331	21	61	865
7	661	35	33	13	742	129	12	32	915
8	768	20	16	11	815	79	8	29	931
9	338	31	12	9	390	55	8	15	468
10	72	14	8	3	97	42	10	21	170
11	215	33	13	6	267	68	5	10	350
12	225	52	38	11	326	425	20	103	874
PROVINCE	**4 518**	**510**	**275**	**99**	**5 403**	**1 714**	**125**	**499**	**7 741**

SOURCE: Statistics Canada, Census 1986

TABLE 55B: Land Use by Area in Acres, Manitoba, 1986

Crop District	-IMPROVED LAND- Crops	Fallow	Pasture	Other	Total	-UNIMPROVED LAND- Pasture	Woodland	Other	TOTAL LAND
				- 000 acres -					
1	1,295	98	55	20	1,468	283	8	72	1,831
2	1,295	133	78	25	1,531	442	17	126	2,116
3	1,146	219	68	24	1,457	382	33	196	2,068
4	461	138	54	12	665	193	22	91	971
5	468	76	37	10	591	147	21	78	837
6	868	137	92	23	1,120	818	52	152	2,142
7	1,635	87	81	32	1,835	319	28	79	2,261
8	1,898	49	39	27	2,013	196	19	72	2,300
9	835	76	30	23	964	136	20	37	1,157
10	179	34	20	7	240	103	25	51	419
11	531	81	31	15	658	168	13	26	865
12	556	129	93	27	805	1,050	49	254	2,158
PROVINCE	**11,167**	**1,258**	**678**	**245**	**13,347**	**4,237**	**307**	**1,234**	**19,125**

SOURCE: Statistics Canada, Census 1986.

TABLE 56: Summerfallow Area, 1987-1989

Crop District	- 000 hectares - 1987	1988	1989	- 000 acres - 1987	1988	1989
1	48	49	40	119	120	99
2	53	51	50	132	126	123
3	96	85	74	236	213	184
4	58	53	43	143	130	106
5	42	36	20	105	89	50
6	50	45	39	124	112	96
7	47	35	29	115	86	72
8	27	23	14	69	57	34
9	29	23	20	71	56	50
10	15	13	11	36	33	27
11	22	18	15	54	45	38
12	39	34	29	96	83	71
PROVINCE	**526**	**465**	**384**	**1,300**	**1,150**	**950**

SOURCE: Statistics Canada.

FARM NUMBER, SIZE, TYPES

The 1986 Census, taken on June 3rd, defines a farm as a farm, ranch or other agricultural holding with sales of agricultural products during the past 12 months of $250 or more.

In 1986, the total amount of all farms in Manitoba numbered 27,336, a 7.2 per cent decline from 1981. Each farm averaged 283 hectares (700 acres). Details about farm size, numbers and product sales for Manitoba in 1986 are listed below.

TABLE 57: Size and Number of Farms by Area, 1986

Crop District	Census Farms (sales ≤ $250) Number	Hectares	Acres	Number of Census Farms (with sales ≤ $2,500) Number	% of All Farms	Number of Census Farms (with sales ≤ $10,000) Number	% of All Farms
1	1,952	380	938	1,901	97	1,771	91
2	2,576	332	822	2,437	95	2,188	85
3	2,630	318	787	2,505	95	2,214	84
4	1,288	305	754	1,207	94	996	77
5	1,214	279	690	1,132	93	934	77
6	2,506	346	855	2,327	93	1,877	75
7	3,076	297	735	2,903	94	2,594	84
8	3,982	234	577	3,830	96	3,531	89
9	3,024	155	383	2,638	87	2,112	70
10	886	191	473	735	83	486	55
11	1,860	188	465	1,578	85	1,173	63
12	2,342	373	922	2,069	88	1,553	66
PROVINCE	**27,336**	**283**	**700**	**25,262**	**92**	**21,429**	**78**

SOURCE: Statistics Canada, Census of Agriculture.

TABLE 58: Farm Types By Area of Land and Number of Animals, 1986

Crop District	Per cent of Farms With - CROPS - Wheat	Oats	Barley	Flax	Canola (Rapeseed)	- LIVESTOCK - Cattle	Hogs	Sheep	Poultry
1	98	25	51	29	28	54	9	1	17
2	69	32	53	22	23	55	11	2	18
3	80	26	62	20	31	54	12	1	22
4	76	34	50	9	34	64	9	2	26
5	77	30	46	31	27	43	13	2	21
6	64	33	36	15	30	60	11	2	23
7	70	27	43	41	31	46	12	2	16
8	79	14	47	54	30	42	20	1	15
9	50	16	30	23	8	42	17	2	20
10	37	23	21	16	11	52	11	3	20
11	54	17	27	18	12	41	11	2	15
12	30	19	28	11	16	66	10	2	21
PROVINCE	**65**	**24**	**43**	**27**	**24**	**51**	**13**	**2**	**19**

SOURCE: Statistics Canada, Census of Agriculture.

TENURE

TABLE 59: Farms Classified by Tenure of Operator - 1986 Census

	No. of Operators	Total Hectares	Total Acres
Owner	25,091	4 871 428	12,037,564
Renters/Leasees	13,552	2 868 798	7,088,953
From Government	3,075	929 248	2,296,218
From Other Sources	11,729	1 939 550	4,792,735
TOTAL		**7 740 226**	**19,126,517**

SOURCE: Statistics Canada

PEOPLE

Population

Manitoba's farm population continues to decline with the consolidation of farms. In 1986 there were 86,505 people on Census farms. Of the 27,336 farm operators, 10.6 per cent did not live on the farms they operated, 1.3 per cent lived on their farms four months or less, 1.9 per cent lived there five to eight months and 86.2 per cent lived on their farms nine to twelve months. About 44.4 per cent of the operators were between 35 and 54 years of age, 22.2 per cent under 35 years, 21.6 per cent between 55 and 64, and 11.8 per cent over 65 years of age.

Census Farm Labour

The 1986 Census of Agriculture revealed that 9,714 farms reported 1,536,485 days of total off-farm work by farm operators in 1985. Of this, 2,179 farms reported 235,001 days of agricultural work and 8,102 farms reported 1,301,484 days of non-agricultural work.

Hired Agricultural Labour. The 1986 Census of Agriculture also reported that 12,140 farms hired paid labour for 342,706 weeks. This included the hiring of 167,867 weeks of year-round labour by 2,617 farms and 174,838 weeks of seasonal labour by 10,798 farms.

FARM WAGES

In 1989, hired farm labour index experienced a 4.1 per cent increase over 1988 and 8.3 per cent over 1987. The hourly rated index reflected, on average, a 5.1 per cent increase over 1988 while the monthly rated index rose by an average of 4.1 per cent and the daily rated index increased by 3.2 per cent over last year. Total wages paid amounted to $121.6 million in 1989 with 99 per cent paid out as cash wages. This represents a 4.0 per cent increase over the 1988 total wage cost of $116.9 million.

CAPITAL

Investment in Agriculture

In 1986, the revised average investment per Manitoba farm reporting in the 1986 Census amounted to $349,100, a decrease of 1.8 per cent below 1981. Land and buildings accounted for 70.0 per cent, machinery for 23.4 per cent and livestock for 7.6 per cent (respectively) of the total capital investment. Total provincial investment in agriculture was $9,543,007,000 in 1986, 8.8 per cent below 1981. Capital investment per farm reporting by area is listed below (based on pre-revised 1986 Census data).

In 1989, total investment in agriculture amounted to $9,178,105,000, 5.1 per cent more than the revised 1988 value of $8,731,990,000 and essentially the same as the 1987 value of $9,202,458,000.

LAND VALUES

TABLE 60: Average Transaction Prices of Farmlands, 1987 - 1989

(Buildings Included)

Crop District	Dollars per Hectare			Dollars per Acre		
	1987	1988	1989*	1987	1988	1989*
1	551	511	596	223	207	241
2	761	666	566	308	269	229
3	514	428	544	208	173	220
4	524	453	499	212	183	202
5	628	530	554	254	214	224
6	474	404	457	192	163	185
7	909	853	773	368	345	313
8	1,226	1,227	1,144	496	497	463
9	1,690	1,764	1,342	684	714	543
10	840	743	531	340	301	215
11	1,631	2,403	1,070	660	973	433
12	413	420	383	167	170	155
Winnipeg Area						
Winnipeg	1,670	0	0	676	0	0
Assiniboia	0	0	0	0	0	0
Charleswood	10,005	5,307	0	4,049	2,148	0
Fort Garry	6,706	0	0	2,714	0	0
St. Vital	18,251	0	0	7,386	0	0
N. Kildonan	15,145	0	0	6,129	0	0
Old Kildonan	26,633	3,291	0	10,778	1,332	0
Transcona	8,236	8,609	0	3,333	3,484	0
Other						
LGD Consol (The Pas)	885	907	672	358	367	272
Unorganized	217	0	193	88	0	78
Unknown Code	0	0	0	0	0	0
PROVINCE	**853**	**808**	**714**	**345**	**327**	**289**

*Figures are for the first six months.

SOURCE: Manitoba Farm Lands Ownership Board.

Capital Investment

The average capital investment in land and buildings was $240,864 per farm, based on the 1986 Census. This value has decreased substantially since 1981, reflecting trends towards lower land values. Since 1981, capital investment in land and buildings has declined as land values have fallen. In 1986 the total value of capital invested in land and buildings was estimated at $6,584,281,000, down 7 per cent from the total in 1985. The value of land and buildings in Manitoba in 1989 was estimated at $5,971,522,000, 6.0 per cent above 1988. On a per farm basis, the average investment in land and buildings in 1989 was $222,818, down 8.0 per cent from the 1988 level. The estimated transaction prices per hectare (acre) of farmland by crop district is listed in Table 61.

TABLE 61: Capital Investment Per Farm Reporting By Area, 1986

Crop District	Land and Buildings	Machinery and Equipment	Livestock	Total
		- dollars per farm -		
1	288,730	113,681	43,904	428,674
2	251,804	91,322	45,647	370,326
3	208,587	83,874	35,424	313,334
4	179,993	70,664	35,847	274,452
5	194,133	71,921	30,005	282,876
6	154,967	64,321	43,354	247,847
7	320,091	103,213	50,491	449,689
8	331,555	107,827	36,039	457,056
9	261,951	72,432	46,632	362,076
10	137,384	44,453	35,212	204,766
11	232,534	69,986	42,255	325,221
12	135,084	54,313	55,217	229,420
PROVINCE	**240,864**	**83,380**	**42,860**	**349,525**

SOURCE: Statistics Canada.

TABLE 62: Value of Farm Capital, By Province, 1985 - 1989

- thousand dollars -

	1985	1986	1987	1988	1989
CANADA	**115,163,824**	**109,568,280**	**104,464,322**	**103,466,063**	**110,852,614**
Manitoba	9,694,791	9,543,001	9,202,458	8,731,990	9,178,105
B.C.	6,971,420	6,484,251	5,944,333	5,879,225	6,070,960
Alberta	30,496,308	28,585,924	27,931,930	27,579,839	29,897,080
Saskatchewan	30,558,911	29,231,394	26,173,867	24,528,026	24,520,971
Ontario	25,530,141	23,709,244	22,953,796	24,464,773	28,522,797
Quebec	9,357,844	9,453,728	9,702,463	9,723,864	10,049,057
New Brunswick	754,648	755,735	750,726	750,157	751,836
Nova Scotia	948,568	961,747	964,198	968,000	996,590
P.E.I.	743,890	736,706	731,693	728,744	752,131
Newfoundland	107,303	106,550	108,858	111,445	113,087

SOURCE: Statistics Canada.

MACHINERY

The number of farm trucks licensed for operation in Manitoba in 1989 was 58,069, a decrease of 10.6 per cent below the 1988 total of 64,956. The number of farm trucks has been dropping since 1985.

TABLE 63: Farm Machinery Numbers and Sales

	Number on Manitoba Farms	Sales During		
	1986 Census	1987	1988	1989
Tractors	73,945	1,005	1,040	1,073
Trucks	57,502	—	—	—
Combines:	21,946	—	—	—
self-propelled	14,082	199	113	199
pull-type	6,328	46	32	78
Balers:	15,317	—	—	—
hand portable bales	9,860	80	54	91
large round bales	5,457	384	456	401
Swathers and Windrowers	24,528	575	601	—
self-propelled	14,082	340	424	155
pull-type	10,446	235	177	237
Mower Conditioners	5,080	182	190	190
Forage Crop Harvesters	978	10	11	12
Grain Dryers	3,381	—	—	—
Potato Harvesters	343	—	—	—
All Other Farm Machinery	21,724	—	—	—

SOURCE: Statistics Canada; Canadian Farm and Industrial Equipment Institute.

FERTILIZER

The volume of sales excluding mixed fertilizers, decreased to 627 500 tonnes (691,800 tons) in 1989 from 678 200 tonnes (747,700 tons) in 1988.

TABLE 64: Sales in Manitoba, July 1 to June 30, 1987 to 1989[R]

- thousands -

	Tonnes Sold			Tons Sold		
Formulation	**1987**	**1988**	**1989**	**1987**	**1988**	**1989**
Types:						
Ammonium Phosphate	165.9	191.3	175.1	182.9	210.9	193.0
Ammonium Nitrate	49.2	54.4	54.4	54.2	60.0	60.0
Urea	142.5	150.6	149.5	157.1	166.0	164.8
Anhydrous Ammonia	119.3	134.4	111.2	131.5	148.2	122.6
Nitrogen Solutions	52.6	53.1	41.7	58.0	58.5	46.0
Ammonium Sulphate	12.0	21.5	21.8	13.2	23.7	24.0
Potassium Chloride	26.6	35.7	27.2	29.3	39.4	30.0
Other Fertilizer Materials[1]	47.9	37.2	46.6	52.8	41.0	51.4
TOTAL FERTILIZER SALES	**616.0**	**678.2**	**627.5**	**679.1**	**747.7**	**691.8**

[1]Includes other nitrogen, other phosphates and other fertilizers. R Revised.

SOURCE: Statistics Canada; Western Canada Fertilizer Association.

HERBICIDES

In 1989, 3.674 million kilograms (8.101 million pounds) of active ingredients of herbicides were used for agricultural purposes in Manitoba. This represented a decrease of 38 per cent below the total usage of 1988 but 3 per cent more than 1987. Use of 2,4-D decreased by 25 per cent, TCA decreased by 54 per cent and MCPA decreased by 15 per cent relative to their respective 1988 levels. The use of other chemicals fell by 28 per cent from 1988, while Bromoxynil-Dicamba increased by 8 per cent. Wild oat herbicides, however, fell by 31 per cent below 1988.

The area treated for wild oats in 1989 fell by 35 per cent below 1988 to 1 880 852 hectares (4,647,693 acres) in 1989 from 2 904 647 hectares (7,177,600 acres) in 1988.

TABLE 65: Herbicides Used for Agricultural Purposes in Manitoba

Formulation	1987	1988	1989[P]
	'000 kilograms of active ingredients		
2,4-D	**536**	**501**	**371**
Ester	118	106	20
Amine	418	395	351
TCA	**97**	**41**	**19**
MCPA	**466**	**411**	**326**
Ester	64	57	32
Amine	338	292	251
Na+, K+, Salt	63	62	43
OTHER CHEMICALS	**423**	**830**	**600**
BROMOXYNIL & DICAMBA	**870**	**629**	**682**
WILD OAT HERBICIDES	**1 168**	**2 571**	**1 779**
TOTAL	**3 560**	**5 895**	**3 674**
	'000 pounds of active ingredients		
2,4-D	**1,181**	**1,104**	**818**
Ester	260	234	45
Amine	921	870	773
TCA	**213**	**89**	**43**
MCPA	**1,027**	**905**	**718**
Ester	141	125	70
Amine	746	645	552
Na+, K+, Salt	140	136	95
OTHER CHEMICALS	**932**	**1,831**	**1,323**
BROMOXYNIL & DICAMBA	**1,919**	**1,386**	**1,503**
WILD OAT HERBICIDES	**2,576**	**5,667**	**3,922**
TOTAL	**7,848**	**12,996**	**8,101**
WILD OAT HERBICIDES		area treated	
Hectares	1 603 100	2 904 647	1 880 852
Acres	3,961,300	7,177,600	4,647,693

P - Preliminary figures. SOURCE: Manitoba Agriculture.

WEATHER

TABLE 66: Weather Record for the Year 1989, Winnipeg

	Temperture		Precipitation		Sunshine		
Month	Mean Monthly °C	Normal Mean °C	1989 mm	Normal mm	Duration (Hours)	Per Cent of Possible	Normal Hours
January	-15.8	-19.3	52.2	21.3	107.8	40.3	121.2
February	-18.5	-15.6	5.6	17.5	204.2	72.5	144.2
March	-10.2	-8.2	20.0	22.7	172.7	47.0	176.2
April	2.6	3.4	15.9	38.5	263.0	63.7	219.8
May	13.7	11.3	26.0	65.7	301.1	63.1	265.6
June	16.5	16.8	150.2	80.1	278.7	57.0	276.1
July	22.1	19.6	33.4	75.9	342.3	69.5	315.6
August	19.5	18.3	76.6	75.2	258.6	57.7	283 3
September	13.6	12.4	10.0	53.3	240.8	63.5	184.6
October	5.8	6.1	16.6	30.9	155.9	46.7	151.5
November	-7.7	-4.5	17.4	25.2	98.1	36.0	90.7
December	-19.8	-14.0	17.0	19.2	141.8	56.0	92.6
YEAR	**1.8**	**2.2**	**440.9**	**525.5**	**2,565.0**	**57.3**	**2,321.4**

SOURCE: Atmospheric Environment Service, Environment Canada.

TABLE 67A: Precipitation at Various Manitoba Points, 1989

- millimetres -

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	YEAR
Altona	62 50	8 00	27 70	15 80	49 50	103 40	21 20	95 20	30 70	6 20	31 50	37 50	489 20
Birtle	6 40	1 80	2 00	15 70	33 70	52 40	46 30	78 60	35 00	33 40	36 60	5 20	345 10
Brandon A	30 40	2 40	13 00	17 80	28 40	62 40	40 60	59 40	24 80	12 20	25 60	18 50	335 50
Carman	44 70	1 20	24 20	13 20	28 90	128 40	5 40	62 00	60 40	8 80	27 00	18 50	422 70
Churchill A	24 00	11 60	11 60	21 50	37 60	20 40	55 00	58 60	35 80	59 60	6 80	14 80	357 30
Cypress River	48 80	4 00	14 80	16 40	33 40	118 40	38 60	94 40	57 20	15 40	21 80	13 60	476 80
Dauphin A	21 30	2 90	15 80	7 40	46 40	132 90	41 80	140 70	32 50	48 40	29 20	14 60	533 90
Emerson	66 00	9 00	28 40	19 80	79 70	99 90	15 40	127 30	29 40	8 00	28 80	30 20	541 90
Flin Flon	7 50	10 80	19 80	16 80	56 60	84 00	24 80	100 40	64 60	48 40	39 30	12 80	485 60
Gimli	33 20	8 10	22 40	21 00	73 10	203 40	55 10	50 30	10 10	29 30	25 90	17 70	549 60
Hamiota	39 60	1 00	9 20	17 80	39 50	120 30	81 30	61 40	M	12 40	32 00	21 00	435 50
Lundar	23 00	2 00	5 00	16 50	50 00	173 60	26 20	31 00	46 60	2 00	21 00	13 00	409 90
McCreary	29 00	2 00	5 00	1 60	41 80	105 20	41 00	82 40	36 20	39 80	22 00	7 00	413 00
Morden AC	40 40	3 20	24 40	21 20	46 80	97 40	13 00	26 20	52 60	9 00	18 40	14 60	367 20
Morris	55 60	9 00	25 60	30 80	36 20	131 20	16 40	52 20	31 60	8 20	20 30	17 40	434 50
Neepawa	26 90	1 20	12 30	1 20	20 20	87 40	77 60	102 00	18 60	20 60	23 20	32 40	439 60
Pierson	112 40	4 00	20 80	30 80	29 00	81 20	26 40	33 00	30 40	9 60	29 40	9 80	416 80
Pilot Mound	39 60	13 40	29 00	12 40	44 80	86 40	14 80	67 20	60 40	13 40	26 20	14 00	423 60
Pinawa	35 50	8 00	25 00	14 40	87 40	101 70	71 80	59 40	22 70	43 00	16 50	21 40	506 80
Portage la Prairie A	42 10	3 80	16 80	20 50	32 80	133 00	32 80	44 00	20 80	13 80	20 50	19 70	400 60
Roblin	6 50	7 90	12 00	7 70	36 90	127 90	54 60	139 40	38 10	52 60	33 10	22 50	539 20
Russell	22 00	6 00	12 00	20 60	41 20	95 00	54 00	84 00	33 80	34 40	33 60	22 60	459 40
Souris	52 00	1 00	20 80	17 40	37 80	48 20	18 20	62 40	33 20	14 00	43 40	17 20	365 60
Sprague	91 00	4 40	54 20	21 40	75 20	188 80	56 40	75 60	25 20	17 40	26 00	23 60	659 20
Steinbach	61 50	7 00	20 00	19 70	65 70	133 50	31 80	73 40	15 60	15 10	33 50	22 70	499 50
Swan River	20 00	5 40	16 20	15 60	59 80	85 00	20 20	161 10	60 00	45 80	29 40	15 80	534 30
The Pas A	8 30	18 30	15 40	4 90	48 30	124 40	34 90	75 60	98 30	31 60	40 70	8 20	509 10
Thompson A	19 40	13 40	8 20	36 90	30 80	39 10	26 70	96 40	54 00	43 20	36 00	16 40	420 50
Turtle Mountain	51 50	8 30	21 60	20 10	41 40	97 70	27 30	56 10	45 30	12 10	26 30	11 20	418 90
Virden	37 70	2 00	14 20	21 80	19 70	84 80	23 70	72 60	43 60	16 00	27 50	14 50	378 30
Winnipeg A	52 20	5 60	20 00	15 90	26 00	150 20	33 40	76 60	10 00	16 60	17 40	17 00	440 90

- inches -

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	YEAR
Altona	2 46	0 31	1 09	0 62	1 95	4 07	0 83	3 75	1 21	0 24	1 24	1 48	19 26
Birtle	0 25	0 07	0 08	0 62	1 33	2 06	1 82	3 02	1 38	1 31	1 44	0 20	13 59
Brandon A	1 20	0 09	0 51	0 70	1 12	2 46	1 60	2 34	0 98	0 48	1 01	0 73	13 21
Carman	1 76	0 05	0 95	0 52	1 14	5 06	0 21	2 44	2 38	0 35	1 06	0 73	16 64
Churchill A	0 94	0 46	0 46	0 85	1 48	0 80	2 17	2 31	1 41	2 35	0 27	0 58	14 07
Cypress River	1 92	0 16	0 58	0 65	1 31	4 66	1 52	3 72	2 25	0 61	0 86	0 54	18 77
Dauphin A	0 84	0 11	0 62	0 29	1 83	5 23	1 65	5 54	1 28	1 91	1 15	0 57	21 02
Emerson	2 60	0 35	1 12	0 78	3 14	3 93	0 61	5 01	1 16	0 31	1 13	1 19	21 33
Flin Flon	0 30	0 42	0 78	0 66	2 23	3 31	0 98	3 95	2 54	1 91	1 55	0 50	19 12
Gimli	1 31	0 32	0 88	0 83	2 88	8 01	2 17	1 98	0 40	1 15	1 02	0 70	21 64
Hamiota	1 56	0 04	0 36	0 70	1 56	4 74	3 20	2 42	0 00	0 49	1 26	0 83	17 15
Lundar	0 91	0 08	0 20	0 65	1 97	6 83	1 03	1 22	1 83	0 08	0 83	0 51	16 14
McCreary	1 14	0 08	0 20	0 06	1 65	4 14	1 61	3 24	1 43	1 57	0 87	0 28	16 26
Morden AC	1 59	0 13	0 96	0 83	1 84	3 83	0 51	1 03	2 07	0 35	0 72	0 57	14 46
Morris	2 19	0 35	1 01	1 21	1 43	5 17	0 65	2 06	1 24	0 32	0 80	0 69	17 11
Neepawa	1 06	0 05	0 48	0 56	0 80	3 44	3 06	4 02	0 73	0 81	0 91	1 28	17 31
Pierson	4 43	0 16	0 82	1 21	1 14	3 20	1 04	1 30	1 20	0 38	1 16	0 39	16 41
Pilot Mound	1 56	0 53	1 14	0 49	1 76	3 48	0 58	2 65	2 38	0 53	1 03	0 55	16 68
Pinawa	1 40	0 31	0 98	0 57	3 44	4 00	2 83	2 34	0 89	1 69	0 65	0 84	19 95
Portage la Prairie A	1 66	0 15	0 66	0 81	1 29	5 24	1 29	1 73	0 82	0 54	0 81	0 78	15 77
Roblin	0 26	0 31	0 47	0 30	1 45	5 04	2 15	5 49	1 50	2 07	1 30	0 89	21 23
Russell	0 87	0 24	0 47	0 81	1 62	3 74	2 13	3 31	1 33	1 35	1 32	0 90	18 09
Souris	2 05	0 04	0 82	0 69	1 49	1 90	0 72	2 46	1 31	0 55	1 71	0 68	14 39
Sprague	3 58	0 17	2 13	0 84	2 96	7 43	2 22	2 98	0 99	0 69	1 02	0 93	25 95
Steinbach	2 42	0 28	0 79	0 78	2 59	5 26	1 25	2 89	0 61	0 59	1 32	0 89	19 67
Swan River	0 79	0 21	0 64	0 61	2 35	3 35	0 80	6 34	2 36	1 80	1 16	0 62	21 04
The Pas A	0 33	0 72	0 61	0 19	1 90	4 90	1 37	2 98	3 87	1 24	1 60	0 32	20 04
Thompson A	0 76	0 53	0 32	1 45	1 21	1 54	1 05	3 80	2 13	1 70	1 42	0 65	16 56
Turtle Mountain	2 03	0 33	0 85	0 79	1 63	3 85	1 07	2 21	1 78	0 48	1 04	0 44	16 49
Virden	1 48	0 08	0 56	0 86	0 78	3 34	0 93	2 86	1 72	0 63	1 08	0 57	14 89
Winnipeg A	2 06	0 22	0 79	0 63	1 02	5 91	1 31	3 02	0 39	0 65	0 69	0 67	17 36

TR Not a measurable amount N A Data not available AC Agriculture Canada A Airport

NOTE Totals may not add due to conversion to Imperial from metric data

SOURCE Environment Canada

PAST TRENDS

TABLE 68: Historical Production Value Summary

Year	Crops	Livestock	Honey & Wax	Other	Total
			- million dollars -		
1955	179	106	0.9	4.1	280
1956	206	103	0.9	4.1	314
1957	154	110	0.9	4.1	269
1958	193	141	0.8	4.2	339
1959	199	132	0.8	4.2	336
1960	222	124	0.9	3.1	350
1961	135	135	1.0	4.0	275
1962	290	129	0.8	3.2	423
1963	240	135	1.1	3.9	380
1964	287	134	1.0	3.0	425
1965	314	143	1.1	3.9	462
1966	317	165	1.4	3.6	487
1967	301	164	1.6	3.4	470
1968	288	164	0.7	3.3	456
1969	257	209	1.5	3.5	471
1970	226	223	1.5	1.5	452
1971	331	206	1.4	1.6	540
1972	429	253	3.0	1.0	686
1973	920	355	3.9	2.1	1,281
1974	695	339	3.5	3.5	1,041
1975	749	326	3.2	4.8	1,084
1976	728	330	4.8	7.2	1,070
1977	831	345	5.2	7.8	1,189
1978	1,052	428	8.0	4.0	1,492
1979	1,006	537	9.3	5.7	1,558
1980	1,088	533	9.3	4.7	1,635
1981	1,415	524	10.7	5.3	1,955
1982	1,400	562	11.0	7.8	1,981
1983	1,347	583	9.9	8.5	1,949
1984	1,581	661	9.1	11.3	2,263
1985	1,676	685	9.8*	13.7	2,384
1986	1,171	756	12.5*	23.7	1,963
1987	1,082	756	9.9*	24.4	1,872
1988	961	792	8.4*	20.9	1,762
1989	1,307	739	7.7*	17.4	2,071

*Includes value of leafcutter bees.

TABLE 69A: Historical Production and Value of Wheat - Metric

Year	Planted Hectares (000)	Yield Per Hectare (kilograms)	Production (000 tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1955	839	1 360	1 143.0	52.00	59,640
1956	890	1 710	1 524.0	48.00	72,800
1957	891	1 495	1 333.0	48.00	64,680
1958	1 004	1 655	1 660.0	50.00	82,960
1959	1 081	1 560	1 687.0	51.00	85,560
1960	1 133	1 585	1 796.0	59.00	106,260
1961	1 179	785	926.0	65.00	59,840
1962	1 231	1 770	2 177.0	62.00	136,000
1963	1 276	1 300	1 660.0	63.00	104,310
1964	1 370	1 690	2 313.0	60.00	138,550
1965	1 311	1 640	2 150.0	61.00	130,350
1966	1 317	1 630	2 150.0	65.00	140,620
1967	1 424	1 720	2 449.0	60.00	147,600
1968	1 376	1 800	2 477.0	48.00	119,544
1969	1 012	1 720	1 742.0	46.00	79,360
1970	567	1 465	830.0	52.00	43,310
1971	1 019	1 975	2 014.0	50.00	101,380
1972	1 052	1 785	1 878.0	68.00	128,340
1973	1 214	1 725	2 095.0	158.00	331,100
1974	1 133	1 415	1 605.0	147.00	236,000
1975	1 255	1 690	2 123.0	130.00	275,340
1976	1 538	1 820	2 803.0	103.00	288,400
1977	1 295	2 125	2 749.0	98.00	269,670
1978	1 376	2 055	2 831.0	133.00	375,440
1979	1 214	1 680	2 041.0	170.00	346,260
1980	1 336	1 425	1 905.0	203.00	386,512
1981	1 578	2 110	3 326.0	174.00	580,041
1982	1 619	2 285	3 701.0	165.00	609,439
1983	1 862	1 830	3 410.0	174.00	594,204
1984	1 801	2 080	3 743.0	172.00	643,796
1985	1 942	2 690	5 226.0	148.00	773,448
1986	2 003	2 240	4 477.0	97.00	434,269
1987	1 963	2 010	3 946.5	100.00	397,750
1988	1 950	1 230	2 400.9	122.00	292,021
1989	2 094	1 910	4 009.1	141.00	565,283

TABLE 69B: Historical Production and Value of Wheat - Imperial

Year	Planted Acres (000)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1955	2,075	20.2	42,000	1.42	59,640
1956	2,199	25.6	56,000	1.30	72,800
1957	2,200	22.3	49,000	1.32	64,680
1958	2,480	24.6	61,000	1.36	82,960
1959	2,670	23.1	62,000	1.38	85,560
1960	2,800	23.6	66,000	1.61	106,260
1961	2,914	11.7	34,000	1.76	59,840
1962	3,042	26.3	80,000	1.70	136,000
1963	3,153	19.3	61,000	1.71	104,310
1964	3,385	25.1	85,000	1.63	138,550
1965	3,240	24.4	79,000	1.65	130,350
1966	3,255	24.3	79,000	1.78	140,620
1967	3,520	25.6	90,000	1.64	147,600
1968	3,400	26.8	91,000	1.31	119,544
1969	2,500	25.6	64,000	1.24	79,360
1970	1,400	21.8	30,500	1.42	43,310
1971	2,519	29.4	74,000	1.37	101,380
1972	2,600	26.5	69,000	1.86	128,340
1973	3,000	25.7	77,000	4.30	331,100
1974	2,800	21.1	59,000	4.00	236,000
1975	3,100	25.2	78,000	3.53	275,340
1976	3,800	27.1	103,000	2.80	288,400
1977	3,200	31.6	101,000	2.67	269,670
1978	3,400	30.6	104,000	3.61	375,440
1979	3,000	25.0	75,000	4.62	346,260
1980	3,300	21.2	70,000	5.52	386,512
1981	3,900	31.3	122,200	4.75	580,041
1982	4,000	34.0	136,000	4.48	609,439
1983	4,600	27.2	125,300	4.74	594,204
1984	4,450	30.9	137,500	4.68	643,796
1985	4,800	40.0	192,000	4.03	773,448
1986	4,950	33.2	164,500	2.64	434,269
1987	4,850	29.9	145,000	2.72	394,650
1988	4,820	18.3	88,200	3.31	292,021
1989	5,175	28.5	147,300	3.84	565,283

TABLE 70A: Historical Production and Value of Oats - Metric

Year	Harvested For Grain (000 hectares)	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1955	601	1 285	771 000	42.00	32,000
1956	789	1 720	1 357 000	34.00	45,760
1957	607	1 220	740 000	34.00	24,960
1958	579	1 330	771 000	36.00	28,000
1959	575	1 340	771 000	42.00	32,000
1960	607	1 425	864 000	40.00	34,720
1961	526	705	370 000	41.00	15,120
1962	726	1 890	1 373 000	38.00	52,510
1963	656	1 455	956 000	36.00	34,100
1964	662	1 700	1 126 000	42.00	47,450
1965	617	1 850	1 141 000	46.00	52,540
1966	619	1 595	987 000	49.00	48,000
1967	647	1 575	1 018 000	45.00	45,540
1968	639	1 955	1 249 000	32.00	40,500
1969	619	1 720	1 064 000	35.00	37,260
1970	510	1 600	817 000	37.00	30,210
1971	565	2 075	1 172 000	34.00	40,280
1972	461	1 840	848 000	58.00	49,500
1973	526	1 850	972 000	106.00	102,690
1974	486	1 365	633 000	99.00	65,360
1975	445	1 735	771 000	93.00	72,000
1976	506	1 860	941 000	73.00	68,930
1977	425	2 105	894 000	64.00	57,420
1978	304	2 080	632 000	64.00	40,590
1979	182	1 690	308 000	89.00	27,400
1980	182	1 525	278 000	119.00	33,120
1981	243	1 905	463 000	105.00	48,580
1982	223	2 350	524 000	81.00	42,500
1983	223	1 800	401 000	110.00	44,110
1984	231	1 940	447 000	109.00	48,723
1985	223	2 490	555 000	88.00	48,400
1986	182	2 540	463 000	74.00	34,262
1987	182	2 290	416 000	89.50	37,232
1988	162	1 380	224 000	113.00	25,312
1989	202	1 680	339 000	125.00	42,375

TABLE 70B: Historical Production and Value of Oats - Imperial

Year	Harvested For Grain (000 acres)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1955	1,485	33.7	50,000	0.64	32,000
1956	1,950	45.0	88,000	0.52	45,760
1957	1,500	32.2	48,000	0.52	24,960
1958	1,430	35.1	50,000	0.56	28,000
1959	1,420	35.3	50,000	0.64	32,000
1960	1,500	37.3	56,000	0.62	34,720
1961	1,300	18.5	24,000	0.63	15,120
1962	1,794	49.6	89,000	0.59	52,510
1963	1,620	38.3	62,000	0.55	34,100
1964	1,635	44.6	73,000	0.65	47,450
1965	1,525	48.5	74,000	0.71	52,540
1966	1,530	41.8	64,000	0.75	48,000
1967	1,600	41.2	66,000	0.69	45,540
1968	1,580	51.3	81,000	0.50	40,500
1969	1,530	45.1	69,000	0.54	37,260
1970	1,260	42.1	53,000	0.57	30,210
1971	1,395	54.5	76,000	0.53	40,280
1972	1,140	48.2	55,000	0.90	49,500
1973	1,300	48.5	63,000	1.63	102,690
1974	1,200	35.8	43,000	1.52	65,360
1975	1,100	45.5	50,000	1.44	72,000
1976	1,250	48.8	61,000	1.13	68,930
1977	1,050	55.2	58,000	0.99	57,420
1978	750	54.7	41,000	0.99	40,590
1979	450	44.4	20,000	1.37	27,400
1980	450	40.0	18,000	1.84	33,120
1981	600	50.0	30,000	1.62	48,580
1982	550	61.8	34,000	1.25	42,500
1983	550	47.3	26,000	1.70	44,110
1984	570	50.9	29,000	1.68	48,720
1985	550	65.5	36,000	1.34	48,400
1986	450	66.7	30,000	1.14	34,262
1987	450	60.0	27,000	1.38	37,232
1988	400	36.3	14,500	1.75	25,312
1989	500	44.0	22,000	1.93	42,375

TABLE 71A: Historical Production and Value of Barley - Metric

Year	Harvested Hectares (000)	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1955	846	1 030	871 000	43.00	37,600
1956	626	1 460	914 000	39.00	35,280
1957	690	1 040	718 000	37.00	26,730
1958	641	1 495	958 000	37.00	35,640
1959	514	1 398	718 000	36.00	25,740
1960	376	1 390	523 000	39.00	20,160
1961	265	740	196 000	48.00	9,450
1962	255	1 790	457 000	44.00	20,160
1963	236	1 475	348 000	45.00	15,520
1964	201	1 730	348 000	48.00	16,800
1965	243	1 970	479 000	48.00	23,100
1966	354	1 725	610 000	50.00	30,800
1967	393	1 825	718 000	41.00	29,370
1968	473	1 980	936 000	36.00	33,970
1969	486	1 880	914 000	32.00	28,980
1970	607	1 830	1 110 000	34.00	37,740
1971	830	2 465	2 047 000	32.00	65,800
1972	850	2 180	1 851 000	58.00	107,100
1973	850	2 125	1 807 000	115.00	208,330
1974	728	1 585	1 154 000	102.00	117,600
1975	607	1 830	1 110 000	105.00	116,280
1976	647	2 255	1 459 000	92.00	134,000
1977	769	2 660	2 047 000	76.00	155,100
1978	708	2 615	1 851 000	78.00	143,650
1979	587	2 150	1 263 000	103.00	129,920
1980	809	1 940	1 568 000	137.00	214,560
1981	951	2 450	2 330 000	119.00	277,228
1982	809	2 935	2 373 000	91.00	215,961
1983	708	2 245	1 589 000	120.00	190,680
1984	728	2 660	1 938 000	121.00	234,498
1985	749	3 370	2 526 000	96.00	242,496
1986	627	2 950	1 851 000	75.00	138,825
1987	688	2 820	1 938 000	62.50	121,125
1988	567	1 920	1 089 000	86.00	89,546
1989	647	2 390	1 546 000	105.00	162,330

TABLE 71B: Historical Production and Value of Barley - Imperial

Year	Harvested Acres (000)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1955	2,090	19.1	40,000	0.94	37,600
1956	1,548	26.9	42,000	0.84	35,280
1957	1,704	19.4	33,000	0.81	26,730
1958	1,584	27.8	44,000	0.81	35,640
1959	1,270	25.9	33,000	0.78	25,740
1960	930	26.1	24,000	0.84	20,160
1961	655	13.7	9,000	1.05	9,450
1962	629	33.4	21,000	0.96	20,160
1963	584	27.4	16,000	0.97	15,520
1964	497	32.2	16,000	1.05	16,800
1965	601	36.6	22,000	1.05	23,100
1966	875	32.0	28,000	1.10	30,800
1967	970	34.0	33,000	0.89	29,370
1968	1,170	36.8	43,000	0.79	33,970
1969	1,200	35.0	42,000	0.69	28,980
1970	1,500	34.0	51,000	0.74	37,740
1971	2,052	45.8	94,000	0.70	65,800
1972	2,100	40.5	85,000	1.26	107,100
1973	2,100	39.5	83,000	2.51	208,330
1974	1,800	29.4	53,000	2.22	117,660
1975	1,500	34.0	51,000	2.28	116,280
1976	1,600	41.9	67,000	2.00	134,000
1977	1,900	49.5	94,000	1.65	155,100
1978	1,750	48.6	85,000	1.69	143,650
1979	1,450	40.0	58,000	2.24	129,920
1980	2,000	36.0	72,000	2.98	214,560
1981	2,350	45.5	107,000	2.59	277,228
1982	2,000	54.5	109,000	1.98	215,961
1983	1,750	41.7	73,000	2.61	190,680
1984	1,800	49.4	89,000	2.63	234,498
1985	1,850	62.7	116,000	2.09	242,496
1986	1,550	54.8	85,000	1.63	138,825
1987	1,700	52.4	89,000	1.36	121,125
1988	1,400	35.7	50,000	1.87	89,546
1989	1,600	44.4	71,000	2.29	162,330

TABLE 72A: Historical Production and Value of Canola (Rapeseed) - Metric

Year	Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1966	68 800	690	47 600	108.00	5,145
1967	58 700	890	52 200	85.00	4,416
1968	36 800	1 170	43 100	83.00	3,572
1969	79 300	1 000	79 400	106.00	8,400
1970	161 900	1 010	163 300	102.00	16,704
1971	235 100	1 160	272 200	95.00	25,800
1972	190 200	1 015	192 800	137.00	26,350
1973	161 900	1 080	174 600	258.00	44,968
1974	202 300	955	192 800	312.00	60,095
1975	303 500	935	283 500	225.00	63,875
1976	101 200	1 010	102 100	257.00	26,190
1977	202 300	1 435	290 300	278.00	80,768
1978	424 900	1 360	578 300	280.00	161,925
1979	546 300	1 040	567 000	267.00	151,250
1980	323 700	910	294 800	280.00	82,550
1981	242 800	1 260	306 200	275.00	84,198
1982	344 000	1 160	399 200	259.00	103,312
1983	384 000	1 035	397 000	383.00	152,051
1984	486 000	1 120	544 000	351.00	190,944
1985	405 000	1 570	635 000	266.00	168,910
1986	405 000	1 430	578 000	197.00	113,866
1987	405 000	1 440	585 000	255.00	149,175
1988	627 000	980	612 000	300.00	183,624
1989	465 000	860	399 000	277.00	110,523

TABLE 72B: Historical Production and Value of Canola (Rapeseed) - Imperial

Year	Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1966	170,000	12.4	2,100	2.45	5,145
1967	145,000	15.9	2,300	1.92	4,416
1968	91,000	20.9	1,900	1.88	3,572
1969	196,000	17.9	3,500	2.40	8,400
1970	400,000	18.0	7,200	2.32	16,704
1971	581,000	20.7	12,000	2.15	25,800
1972	470,000	18.1	8,500	3.10	26,350
1973	400,000	19.2	7,700	5.84	44,968
1974	500,000	17.0	8,500	7.07	60,095
1975	750,000	16.7	12,500	5.11	63,875
1976	250,000	18.0	4,500	5.82	26,190
1977	500,000	25.6	12,800	6.31	80,768
1978	1,050,000	24.3	25,500	6.35	161,925
1979	1,350,000	18.5	25,000	6.05	151,250
1980	800,000	16.2	13,000	6.35	82,550
1981	600,000	22.5	13,500	6.24	84,198
1982	850,000	20.7	17,600	5.87	103,312
1983	950,000	18.4	17,500	8.69	152,051
1984	1,200,000	20.0	24,000	7.96	190,944
1985	1,000,000	28.0	28,000	6.03	168,910
1986	1,000,000	25.5	25,500	4.47	113,866
1987	1,000,000	25.8	25,800	5.78	149,175
1988	1,550,000	17.4	27,000	6.80	183,624
1989	1,150,000	15.3	17,600	6.28	110,523

TABLE 73A: Historical Production and Value of Flaxseed - Metric

Year	Planted Hectares (000)	Yield Per Hectare (kilograms)	Production (000 tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1955	215	520	111.8	110.00	12,320
1956	319	635	203.2	102.00	20,720
1957	350	255	88.9	98.00	8,680
1958	223	535	119.4	103.00	12,314
1959	233	500	116.8	120.00	13,984
1960	286	570	162.6	108.00	17,600
1961	303	360	109.2	130.00	14,190
1962	270	735	198.1	118.00	23,400
1963	332	710	236.2	112.00	26,505
1964	415	650	269.3	116.00	31,270
1965	546	755	411.5	106.00	43,578
1966	448	595	266.0	106.00	28,350
1967	267	540	144.8	121.00	17,556
1968	332	795	264.2	112.00	29,536
1969	445	580	259.1	101.00	26,214
1970	445	655	292.1	87.00	25,530
1971	229	655	149.9	86.00	12,862
1972	202	740	149.9	161.00	24,190
1973	243	795	193.0	376.00	72,580
1974	283	590	167.6	376.00	63,096
1975	304	700	213.4	258.00	55,020
1976	212	755	160.0	267.00	42,714
1977	304	1 085	330.2	207.00	68,250
1978	304	1 045	317.5	268.00	85,125
1979	506	880	444.5	280.00	124,425
1980	324	650	210.0	320.00	67,479
1981	283	925	261.0	322.00	84,246
1982	364	1 200	436.9	244.00	106,640
1983	304	975	297.0	323.00	95,931
1984	425	1 030	439.0	317.00	139,163
1985	425	1 320	559.0	265.00	152,905
1986	417	1 370	572.0	173.00	98,956
1987	324	1 250	406.0	195.00	79,170
1988	283	700	198.0	274.00	54,254
1989	304	780	236.0	335.00	79,060

TABLE 73B: Historical Production and Value of Flaxseed - Imperial

Year	Planted Acres (000)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1955	531	8.3	4,400	2.80	12,320
1956	789	10.1	8,000	2.59	20,720
1957	865	4.0	3,500	2.48	8,680
1958	550	8.6	4,700	2.62	12,314
1959	575	8.0	4,600	3.04	13,984
1960	707	9.1	6,400	2.75	17,600
1961	748	5.7	4,300	3.30	14,190
1962	667	11.7	7,800	3.00	23,400
1963	820	11.3	9,300	2.85	26,505
1964	1,025	10.3	10,600	2.95	31,270
1965	1,350	12.0	16,200	2.69	43,578
1966	1,107	9.5	10,500	2.70	28,350
1967	660	8.6	5,700	3.08	17,556
1968	820	12.7	10,400	2.84	29,536
1969	1,100	9.3	10,200	2.57	26,214
1970	1,100	10.5	11,500	2.22	25,530
1971	566	10.4	5,900	2.18	12,862
1972	500	11.8	5,900	4.10	24,190
1973	600	12.7	7,600	9.55	72,580
1974	700	9.4	6,600	9.56	63,096
1975	750	11.2	8,400	6.55	55,020
1976	525	12.0	6,300	6.78	42,714
1977	750	17.3	13,000	5.25	68,250
1978	750	16.7	12,500	6.81	85,125
1979	1,250	14.0	17,500	7.11	124,425
1980	800	10.4	8,300	8.13	67,479
1981	700	14.7	10,300	8.18	84,246
1982	900	19.1	17,200	6.20	106,640
1983	750	15.6	11,700	8.20	95,931
1984	1,050	16.5	17,300	8.05	139,163
1985	1,050	21.0	22,000	6.74	152,905
1986	1,030	21.8	22,500	4.40	98,956
1987	800	20.0	16,000	4.95	79,170
1988	700	11.1	7,800	6.96	54,254
1989	750	12.4	9,300	8.50	79,060

TABLE 74A: Historical Production and Value of All Rye - Metric

Year	Planted Hectares	Yield Per Hectare (kilograms)	Production (000 tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1955	36 200	1 240	44.8	37.00	1,644
1956	27 800	990	27.5	39.00	1,067
1957	29 900	1 020	30.5	35.00	1,056
1958	28 600	1 050	30.0	34.00	1,020
1959	34 000	1 245	42.3	35.00	1,461
1960	33 800	1 240	41.9	34.00	1,444
1961	31 800	705	22.4	43.00	957
1962	48 200	1 585	76.5	41.00	3,150
1963	38 200	1 395	53.3	49.00	2,625
1964	54 200	1 315	71.3	41.00	2,940
1965	54 200	1 410	76.5	41.00	3,120
1966	40 200	1 525	61.4	42.00	2,592
1967	57 400	1 175	67.4	43.00	2,880
1968	48 400	1 310	63.5	39.00	2,500
1969	66 200	1 140	75.5	34.00	2,573
1970	52 800	1 365	72.0	34.00	2,469
1971	51 600	1 625	83.8	29.00	2,460
1972	32 600	1 435	46.8	51.00	2,397
1973	32 800	1 650	54.1	105.00	5,684
1974	40 800	1 545	63.0	89.00	5,625
1975	47 800	1 590	76.0	99.00	7,500
1976	36 800	1 855	68.3	85.00	5,778
1977	44 800	1 880	84.3	86.00	7,227
1978	50 800	1 955	99.4	102.00	10,140
1979	50 400	1 580	79.6	146.00	11,592
1980	60 800	1 235	75.0	171.00	12,848
1981	76 400	2 290	175.1	140.00	24,538
1982	92 800	2 295	213.1	87.00	18,564
1983	85 000	1 920	163.0	107.00	17,441
1984	88 600	2 210	195.8	93.00	18,209
1985	80 800	2 120	171.5	68.00	11,662
1986	30 900	1 970	61.0	61.00	3,721
1987	26 300	1 750	46.0	80.00	3,680
1988	48 600	1 200	58.4	109.00	5,254
1989	93 100	2 130	198.0	83.00	16,434

TABLE 74B: Historical Production and Value of All Rye - Imperial

Year	Planted Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1955	89,000	19.7	1,750	0.94	1,644
1956	68,400	16.1	1,100	0.97	1,067
1957	72,900	16.5	1,200	0.88	1,056
1958	71,500	16.8	1,200	0.85	1,020
1959	83,000	20.0	1,660	0.88	1,461
1960	83,000	20.0	1,660	0.87	1,444
1961	79,500	11.1	886	1.08	957
1962	119,000	25.2	3,000	1.05	3,150
1963	95,000	22.1	2,100	1.25	2,625
1964	133,000	21.1	2,800	1.05	2,940
1965	133,000	22.6	3,000	1.04	3,120
1966	100,500	23.9	2,400	1.08	2,592
1967	141,100	18.9	2,667	1.08	2,880
1968	120,000	20.8	2,500	1.00	2,500
1969	163,000	18.1	2,958	0.87	2,573
1970	130,000	21.8	2,838	0.87	2,469
1971	128,500	25.5	3,280	0.75	2,460
1972	81,500	22.5	1,830	1.31	2,397
1973	82,000	26.2	2,145	2.65	5,684
1974	102,000	24.5	2,500	2.25	5,625
1975	117,000	25.6	3,000	2.50	7,500
1976	92,000	29.3	2,700	2.14	5,778
1977	110,000	30.0	3,300	2.19	7,227
1978	125,000	31.2	3,900	2.60	10,140
1979	125,000	25.2	3,150	3.68	11,592
1980	150,000	19.6	2,940	4.37	12,848
1981	190,000	36.3	6,900	3.56	24,538
1982	230,000	36.5	8,400	2.21	18,564
1983	210,000	30.6	6,420	2.72	17,441
1984	220,000	35.0	7,710	2.36	18,209
1985	200,000	33.8	6,760	2.32	11,662
1986	76,600	31.3	2,400	1.55	3,721
1987	65,000	27.7	1,800	2.04	3,680
1988	120,000	19.2	2,300	2.77	5,254
1989	230,000	33.9	7,800	2.11	16,434

TABLE 75A: Historical Production and Value of Mixed Grains - Metric

Year	Planted Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1955	19 000	1 310	24 900	40.00	990
1956	27 100	1 765	47 800	31.00	1,499
1957	29 300	1 390	40 800	30.00	1,220
1958	44 900	1 545	69 400	32.00	2,244
1959	55 000	1 555	85 500	36.00	3,058
1960	51 000	1 600	81 500	37.00	2,996
1961	63 500	920	58 300	45.00	2,600
1962	50 200	2 035	102 100	40.00	4,100
1963	51 000	1 560	79 600	37.00	2,964
1964	51 000	1 960	100 000	41.00	4,116
1965	59 100	2 075	122 500	42.00	5,100
1966	74 500	1 875	139 700	47.00	6,503
1967	72 000	1 900	136 800	44.00	6,030
1968	72 000	2 185	157 200	38.00	5,929
1969	76 900	1 885	144 900	31.00	4,544
1970	101 200	1 855	187 800	35.00	6,532
1971	114 900	2 400	275 600	32.00	8,775
1972	117 400	2 175	255 100	53.00	13,500
1973	119 400	2 135	255 100	101.00	25,875
1974	80 900	1 515	122 500	93.00	11,400
1975	80 900	1 890	153 100	91.00	13,950
1976	68 800	2 045	140 800	77.00	10,833
1977	68 800	2 375	163 300	80.00	13,040
1978	64 700	2 395	155 100	83.00	12,920
1979	56 700	2 125	120 400	105.00	12,626
1980	48 600	1 805	87 800	130.00	11,395
1981	48 600	2 265	110 200	115.00	12,636
1982	48 600	2 685	130 600	89.00	11,648
1983	48 600	2 015	98 000	115.00	11,270
1984	50 600	2 330	118 000	127.00	14,986
1985	50 600	2 750	139 000	113.00	15,763
1986	32 400	2 530	82 000	92.00	7,544
1987	32 400	2 530	82 000	61.00	5,002
1988	28 300	1 500	43 000	94.00	4,040
1989	28 300	2 160	61 200	111.00	6,793

TABLE 75B: Historical Production and Value of Mixed Grains - Imperial

Year	Planted Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1955	47,000	26.0	1,222	0.81	990
1956	66,900	35.0	2,342	0.64	1,499
1957	72,300	27.7	2,000	0.61	1,220
1958	111,000	30.6	3,400	0.66	2,244
1959	136,000	30.8	4,189	0.73	3,058
1960	126,000	31.7	3,994	0.75	2,996
1961	157,000	18.2	2,857	0.91	2,600
1962	124,000	40.3	5,000	0.82	4,100
1963	126,000	31.0	3,900	0.76	2,964
1964	126,000	38.9	4,900	0.84	4,116
1965	146,000	41.1	6,000	0.85	5,100
1966	184,000	37.2	6,845	0.95	6,503
1967	178,000	37.6	6,700	0.90	6,030
1968	178,000	43.3	7,700	0.77	5,929
1969	190,000	37.4	7,100	0.64	4,544
1970	250,000	36.8	9,200	0.71	6,532
1971	284,000	47.5	13,500	0.65	8,775
1972	290,000	43.1	12,500	1.08	13,500
1973	295,000	42.4	12,500	2.07	25,875
1974	200,000	30.0	6,000	1.90	11,400
1975	200,000	37.5	7,500	1.86	13,950
1976	170,000	40.6	6,900	1.57	10,833
1977	170,000	47.1	8,000	1.63	13,040
1978	160,000	47.5	7,600	1.70	12,920
1979	140,000	42.1	5,900	2.14	12,626
1980	120,000	35.8	4,300	2.65	11,395
1981	120,000	45.0	5,400	2.35	12,676
1982	120,000	53.3	6,400	1.82	11,648
1983	120,000	40.0	4,800	2.31	11,270
1984	125,000	46.4	5,800	2.55	14,986
1985	125,000	54.4	6,800	2.32	15,763
1986	80,000	50.0	4,000	1.89	7,544
1987	80,000	50.0	4,000	1.25	5,002
1988	70,000	30.0	2,100	1.92	4,040
1989	70,000	42.9	3,000	2.26	6,793

TABLE 76A: Historical Production and Value of Grain Corn - Metric

Year	Planted Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value	
				Price Per Tonne $	Total ($000)
1955	2 500	1 920	4 800	43.00	208
1956	2 900	1 550	4 500	48.00	214
1957	3 200	1 595	5 100	47.00	240
1958	2 800	1 570	4 400	46.00	203
1959	2 000	1 900	3 800	37.00	142
1960	2 200	2 045	4 500	43.00	193
1961	1 700	1 825	3 100	45.00	141
1962	1 300	2 615	3 400	45.00	152
1963	1 800	2 555	4 600	49.00	225
1964	2 000	1 600	3 200	47.00	150
1965	2 400	1 585	3 800	49.00	188
1966	1 200	2 750	3 300	58.00	191
1967	2 200	3 180	7 000	59.00	412
1968	1 000	2 500	2 500	53.00	132
1969	1 200	2 085	2 500	54.00	135
1970	1 400	2 570	3 600	58.00	210
1971	3 700	3 025	11 200	49.00	550
1972	5 300	3 360	17 800	61.00	1,085
1973	6 500	3 445	22 400	120.00	2,684
1974	2 000	2 400	4 800	145.00	697
1975	4 900	3 900	19 100	120.00	2,288
1976	6 900	4 230	29 200	119.00	3,473
1977	9 700	4 060	39 400	103.00	4,061
1978	35 600	4 140	147 300	110.00	16,240
1979	52 600	3 765	198 100	124.00	24,570
1980	56 700	3 360	190 500	134.00	25,500
1981	91 100	4 740	431 800	106.00	46,205
1982	80 900	3 140	254 000	105.00	26,671
1983	77 000	2 830	218 000	130.00	28,340
1984	73 000	3 230	236 000	140.00	33,040
1985	40 500	1 880	76 000	120.00	9,120
1986	13 800	4 420	61 000	92.00	7,164
1987	20 200	5 400	109 000	92.00	10,028
1988	32 400	3 210	104 000	107.00	11,134
1989	34 400	3 170	109 000	124.00	13,516

TABLE 76B: Historical Production and Value of Grain Corn - Imperial

Year	Planted Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1955	6,300	30.0	189	1.10	208
1956	7,100	25.0	178	1.20	214
1957	8,000	25.0	200	1.20	240
1958	7,000	25.0	175	1.16	203
1959	5,000	30.0	150	0.95	142
1960	5,500	32.5	179	1.08	193
1961	4,100	30.0	123	1.15	141
1962	3,300	40.0	132	1.15	152
1963	4,500	40.0	180	1.25	225
1964	5,000	25.0	125	1.20	150
1965	6,000	25.0	150	1.25	188
1966	2,900	44.8	130	1.47	191
1967	5,500	50.0	275	1.50	412
1968	2,500	40.0	100	1.32	132
1969	3,000	33.3	100	1.35	135
1970	3,500	40.0	140	1.50	210
1971	9,100	48.4	440	1.25	550
1972	13,000	53.8	700	1.55	1,085
1973	16,000	55.0	880	3.05	2,684
1974	5,000	38.0	190	3.67	697
1975	12,000	62.5	750	3.05	2,288
1976	17,000	67.6	1,150	3.02	3,473
1977	24,000	64.6	1,550	2.62	4,061
1978	88,000	65.9	5,800	2.80	16,240
1979	130,000	60.0	7,800	3.15	24,570
1980	140,000	53.6	7,500	3.40	25,500
1981	225,000	75.6	17,000	2.72	46,205
1982	200,000	50.0	10,000	2.67	26,671
1983	190,000	45.3	8,600	3.30	28,340
1984	180,000	51.7	9,300	3.56	33,040
1985	100,000	30.0	3,000	3.04	9,120
1986	34,000	70.6	2,400	2.34	5,612
1987	50,000	86.0	4,300	2.33	10,028
1988	80,000	51.2	4,100	2.72	11,134
1989	85,000	50.6	4,300	3.14	13,516

TABLE 77A: Historical Production and Value of Field Peas - Metric

Year	Planted Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1955	16 600	670	11 150	74.00	820
1956	22 500	1 415	31 800	55.00	1,752
1957	22 700	1 005	22 850	55.00	1,260
1958	21 000	945	19 800	74.00	1,456
1959	19 800	810	16 000	70.00	1,117
1960	16 600	1 255	20 850	74.00	1,534
1961	18 900	1 010	19 050	77.00	1,470
1962	12 900	1 055	13 600	81.00	1,100
1963	15 000	1 270	19 050	85.00	1,610
1964	23 900	1 545	36 950	70.00	2,578
1965	17 200	1 495	25 700	66.00	1,699
1966	18 600	1 070	19 900	83.00	1,645
1967	12 100	1 575	19 050	77.00	1,470
1968	13 400	1 070	14 350	75.00	1,072
1969	21 000	970	20 400	69.00	1,402
1970	24 300	1 140	27 750	68.00	1,897
1971	20 500	1 595	32 650	64.00	2,100
1972	18 200	1 495	27 200	70.00	1,900
1973	14 200	1 610	22 850	202.00	4,620
1974	16 200	1 395	22 600	232.00	5,246
1975	14 200	1 435	20 400	165.00	3,375
1976	15 400	1 750	26 950	174.00	4,702
1977	22 300	1 650	36 750	202.00	7,425
1978	25 500	2 025	51 700	151.00	7,790
1979	28 300	1 825	51 700	160.00	8,265
1980	34 000	1 440	49 000	238.00	11,664
1981	40 500	1 950	78 950	250.00	19,731
1982	44 500	1 835	81 650	193.00	15,758
1983	40 500	1 680	68 000	220.00	14,960
1984	44 500	1 830	81 600	227.00	18,523
1985	40 500	2 689	108 900	211.00	23,000
1986	58 700	1 760	103 400	190.00	19,646
1987	72 800	1 980	144 200	194.00	27,975
1988	72 800	1 080	78 900	215.00	16,963
1989	52 600	1 500	78 900	187.00	14,754

TABLE 77B: Historical Production and Value of Field Peas - Imperial

Year	Planted Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1955	41,000	10.0	410	2.00	820
1956	55,600	21.0	1,168	1.50	1,752
1957	56,000	15.0	840	1.50	1,260
1958	52,000	14.0	728	2.00	1,456
1959	49,000	12.0	588	1.90	1,117
1960	41,000	18.7	767	2.00	1,534
1961	46,700	15.0	700	2.10	1,470
1962	31,800	15.7	500	2.20	1,100
1963	37,000	18.9	700	2.30	1,610
1964	59,000	23.0	1,357	1.90	2,578
1965	42,500	22.2	944	1.80	1,699
1966	46,000	15.9	731	2.25	1,645
1967	30,000	23.3	700	2.10	1,470
1968	33,000	16.0	528	2.03	1,072
1969	52,000	14.4	750	1.87	1,402
1970	60,000	17.0	1,020	1.86	1,897
1971	50,700	23.7	1,200	1.75	2,100
1972	45,000	22.2	1,000	1.90	1,900
1973	35,000	24.0	840	5.50	4,620
1974	40,000	20.8	830	6.32	5,246
1975	35,000	21.4	750	4.50	3,375
1976	38,000	26.1	990	4.75	4,702
1977	55,000	24.5	1,350	5.50	7,425
1978	63,000	30.2	1,900	4.10	7,790
1979	70,000	27.1	1,900	4.35	8,265
1980	84,000	21.4	1,800	6.48	11,664
1981	100,000	29.0	2,900	6.80	19,731
1982	110,000	27.3	3,000	5.25	15,758
1983	100,000	25.0	2,500	5.98	14,960
1984	110,000	27.3	3,000	6.18	18,523
1985	100,000	37.0	3,700	5.75	23,000
1986	145,000	26.2	3,800	5.17	19,646
1987	180,000	29.4	5,300	5.28	27,975
1988	180,000	16.1	2,900	5.85	16,963
1989	130,000	22.3	2,900	5.09	14,754

TABLE 78A: Historical Production and Value of Buckwheat - Metric

Year	Planted Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1961	5 300	585	3 100	53.00	164
1962	4 000	1 140	4 550	74.00	336
1963	6 100	1 075	6 550	66.00	435
1964	10 500	830	8 700	46.00	400
1965	8 100	535	4 350	48.00	210
1966	9 200	805	7 400	85.00	629
1967	18 200	630	11 450	92.00	1,050
1968	20 200	570	11 550	90.00	1,034
1969	20 200	700	14 150	80.00	1,138
1970	32 400	940	30 500	64.00	1,960
1971	32 400	1 075	34 850	69.00	2,400
1972	30 400	825	25 050	64.00	1,610
1973	26 300	745	19 600	172.00	3,375
1974	16 200	940	15 240	223.00	3,402
1975	10 100	925	9 350	156.00	1,462
1976	17 800	480	8 700	186.00	1,616
1977	32 400	1 010	32 650	207.00	6,750
1978	48 600	1 210	58 800	207.00	12,150
1979	54 600	400	21 750	201.00	4,380
1980	39 700	440	17 400	287.00	5,000
1981	50 600	905	45 700	377.00	17,237
1982	46 500	470	21 750	317.00	6,902
1983	36 400	655	23 900	320.00	7,648
1984	28 300	460	13 100	345.00	4,520
1985	12 100	880	10 700	344.00	4,890
1986	21 900	920	20 200	248.00	5,010
1987	16 000	1 260	20 200	248.00	5,010
1988	20 200	1 250	12 400	254.00	3,150
1989	20 200	720	14 600	344.00	5,022

TABLE 79A: Historical Production and Value of Mustard Seed - Metric

Year	Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1973	16 200	895	14 500	154.00	2,240
1974	16 200	840	13 600	408.00	5,550
1975	9 300	710	6 600	275.00	1,812
1976	7 300	890	6 500	248.00	1,613
1977	16 200	1 005	16 300	232.00	3,780
1978	25 100	1 155	29 000	243.00	7,040
1979	10 100	940	9 500	221.00	2,100
1980	17 800	915	16 300	331.00	5,400
1981	18 200	1 050	19 100	382.00	7,296
1982	10 100	1 060	10 700	240.00	2,569
1983	12 100	960	11 600	353.00	4,095
1984	16 200	840	13 600	353.00	4,801
1985	16 200	1 235	20 000	350.00	7,000
1986	14 200	1 210	17 200	287.00	4,936
1987	6 100	1 260	7 700	260.00	2,002
1988	8 100	840	8 200	221.00	1,812
1989	12 100	750	9 100	309.00	2,812

TABLE 78B: Historical Production and Value of Buckwheat - Imperial

Year	Planted Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1961	13,200	10.8	143	1.15	164
1962	10,000	21.0	210	1.60	336
1963	15,000	20.0	300	1.45	435
1964	26,000	15.4	400	1.00	400
1965	20,000	10.0	200	1.05	210
1966	22,700	15.0	340	1.85	629
1967	45,000	11.7	525	2.00	1,050
1968	50,000	10.6	530	1.95	1,034
1969	50,000	13.0	650	1.75	1,138
1970	80,000	17.5	1,400	1.40	1,960
1971	80,000	20.0	1,600	1.50	2,400
1972	75,000	15.3	1,150	1.40	1,610
1973	65,000	13.8	900	3.75	3,375
1974	40,000	17.5	700	4.86	3,402
1975	25,000	17.2	430	3.40	1,462
1976	44,000	9.1	400	4.04	1,616
1977	80,000	18.8	1,500	4.50	6,750
1978	120,000	22.5	2,700	4.50	12,150
1979	135,000	7.4	1,000	4.38	4,380
1980	98,000	8.2	800	6.25	5,000
1981	125,000	16.8	2,100	8.21	17,237
1982	115,000	8.7	1,000	6.90	6,902
1983	90,000	12.2	1,100	6.95	7,648
1984	70,000	8.6	600	7.51	4,520
1985	30,000	16.3	490	7.52	4,890
1986	54,000	17.2	930	5.39	5,010
1987	40,000	23.3	930	5.39	5,010
1988	50,000	11.4	570	5.53	3,150
1989	50,000	13.4	670	7.50	5,022

TABLE 79B: Historical Production and Value of Mustard Seed - Imperial

Year	Acres	Yield Per Acre (pounds)	Production (000 pounds)	Farm Value Price Per Pound $	Farm Value Total ($000)
1973	40,000	800	32,000	.070	2,240
1974	40,000	750	30,000	.185	5,550
1975	23,000	630	14,500	.125	1,812
1976	18,000	800	14,400	.112	1,613
1977	40,000	900	36,000	.105	3,780
1978	62,000	1,032	64,000	.110	7,040
1979	25,000	840	21,000	.100	2,100
1980	44,000	818	36,000	.150	5,400
1981	45,000	933	42,000	.173	7,296
1982	25,000	940	23,500	.109	2,569
1983	30,000	850	25,500	.160	4,095
1984	40,000	750	30,000	.160	4,801
1985	40,000	1,100	44,000	.160	7,000
1986	35,000	1,086	38,000	.130	4,936
1987	15,000	1,133	17,000	.120	2,002
1988	20,000	900	18,000	.100	1,812
1989	30,000	667	20,000	.141	2,812

TABLE 80A: Historical Production and Value of Sunflowers - Metric

Year	Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value	
				Price Per Tonne $	Total ($000)
1955	8 094	911	7 371	92.52	682
1956	13 354	596	7 963	94.81	755
1957	12 140	448	5 443	99.21	540
1958	18 211	482	8 777	114.62	1,006
1959	12 900	545	7 000	88.00	614
1960	11 300	905	10 200	99.00	1,008
1961	12 300	790	9 700	99.00	961
1962	8 300	845	7 000	121.00	845
1963	15 000	1 060	15 900	97.00	1,547
1964	19 400	590	11 400	111.00	1,260
1965	19 400	620	12 000	132.00	1,584
1966	17 400	730	12 700	132.00	1,680
1967	17 800	900	16 000	99.00	1,584
1968	15 000	725	10 900	110.00	1,200
1969	19 400	795	15 400	121.00	1,870
1970	26 300	895	23 600	138.00	3,250
1971	62 700	840	52 700	135.00	7,091
1972	76 900	895	68 900	154.00	10,640
1973	50 600	785	39 700	220.00	8,750
1974	8 500	975	8 300	450.00	3,731
1975	25 100	1 190	29 900	221.00	6,600
1976	20 200	1 190	24 000	221.00	5,300
1977	66 800	1 190	79 400	253.00	20,125
1978	87 000	1 325	115 200	243.00	27,940
1979	153 800	1 355	208 700	242.00	50,600
1980	129 500	1 225	158 800	220.00	35,000
1981	109 300	1 455	158 800	227.00	36,038
1982	70 800	1 235	87 300	198.00	17,289
1983	40 500	1 120	45 400	298.00	13,529
1984	78 900	1 150	90 700	360.00	32,652
1985	64 700	1 190	77 100	230.00	17,733
1986	23 100	1 430	33 100	209.00	6,918
1987	28 300	1 570	44 500	202.00	8,989
1988	34 400	1 240	42 600	190.00	8,094
1989	46 500	1 350	63 000	243.00	15,309

TABLE 80B: Historical Production and Value of Sunflowers - Imperial

Year	Acres	Yield Per Acre (pounds)	Production (000 pounds)	Farm Value Price Per Pound $	Farm Value Total ($000)
1955	20,000	812	16,250	.042	682
1956	33,000	532	17,556	.043	755
1957	30,000	400	12,000	.045	540
1958	45,000	430	19,350	.052	1,006
1959	32,000	480	15,360	.040	614
1960	28,000	800	22,400	.045	1,008
1961	30,500	700	21,350	.045	961
1962	20,500	749	15,360	.055	845
1963	37,000	950	35,150	.044	1,547
1964	48,000	525	25,200	.050	1,260
1965	48,000	550	26,400	.060	1,584
1966	43,100	650	28,000	.060	1,680
1967	44,000	800	35,200	.045	1,584
1968	37,000	650	24,000	.050	1,200
1969	48,000	708	34,000	.055	1,870
1970	65,000	800	52,000	.0625	3,250
1971	155,000	750	116,250	.061	7,091
1972	190,000	800	152,000	.070	10,640
1973	125,000	700	87,500	.100	8,750
1974	21,000	867	18,200	.205	3,731
1975	62,000	1,065	66,000	.100	6,600
1976	50,000	1,060	53,000	.100	5,300
1977	165,000	1,061	175,000	.115	20,125
1978	215,000	1,182	254,000	.110	27,940
1979	380,000	1,211	460,000	.110	50,600
1980	320,000	1,094	350,000	.100	35,000
1981	270,000	1,296	350,000	.103	36,038
1982	175,000	1,100	192,500	.090	17,289
1983	100,000	1,000	100,000	.135	13,529
1984	195,000	1,026	200,000	.163	32,652
1985	160,000	1,063	170,000	.100	17,733
1986	57,000	1,281	73,000	.090	6,918
1987	70,000	1,400	98,000	.090	8,989
1988	85,000	1,106	94,000	.090	8,094
1989	115,000	1,209	139,000	.110	15,309

TABLE 81A: Historical Production and Value of Tame Hay - Metric

Year	Hectares (000)	Yield Per Hectare (tonnes)	Production (000 tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1955	240	4.41	1 058	11.60	12,243
1956	260	4.42	1 150	11.00	12,680
1957	290	3.99	1 157	11.00	12,750
1958	320	2.89	924	15.20	14,011
1959	348	3.92	1 332	16.50	22,020
1960	380	3.83	1 457	14.20	20,717
1961	410	2.00	820	19.30	15,820
1962	420	4.51	1 896	15.40	29,260
1963	410	4.13	1 694	16.50	28,005
1964	400	3.32	1 329	17.60	23,440
1965	390	3.80	1 481	18.20	26,928
1966	430	4.43	1 903	18.20	34,617
1967	430	3.37	1 451	19.30	28,000
1968	380	3.82	1 451	20.40	29,600
1969	400	3.31	1 724	18.20	31,350
1970	470	4.30	2 023	16.50	33,450
1971	440	4.33	1 905	18.20	34,650
1972	490	3.70	1 814	22.10	40,000
1973	490	4.07	1 996	33.10	66,000
1974	510	4.27	2 177	38.60	84,000
1975	510	4.45	2 268	40.80	92,500
1976	570	4.14	2 359	41.50	97,968
1977	570	4.14	2 359	41.30	97,500
1978	570	4.62	2 631	40.70	107,010
1979	550	4.29	2 359	50.00	117,936
1980	530	2.57	1 361	70.00	95,250
1981	510	4.45	2 268	60.00	136,078
1982	510	4.45	2 268	55.00	124,738
1983	526	4.14	2 177	55.00	119,735
1984	526	3.97	2 087	62.00	129,394
1985	546	3.99	2 177	62.80	136,716
1986	587	5.25	3 084	61.00	188,124
1987	627	4.63	2 903	45.00	130,635
1988	647	2.66	1 724	79.00	136,300
1989	647	3.93	2 540	52.00	132,080

TABLE 81B: Historical Production and Value of Tame Hay - Imperial

Year	Acres (000)	Yield Per Acre (tons)	Production (000 tons)	Farm Value Price Per Ton $	Farm Value Total ($000)
1955	583	2.00	1,166	10.50	12,24
1956	634	2.00	1,268	10.00	12,68
1957	722	1.77	1,275	10.00	12,75
1958	790	1.29	1,019	13.75	14,01
1959	834	1.76	1,468	15.00	22,02
1960	934	1.72	1,606	12.90	20,71
1961	1,004	0.90	904	17.50	15,82
1962	1,045	2.00	2,090	14.00	29,26
1963	1,020	1.83	1,867	15.00	28,00
1964	990	1.48	1,465	16.00	23,44
1965	960	1.70	1,632	16.50	26,92
1966	1,065	1.97	2,098	16.50	34,61
1967	1,052	1.52	1,600	17.50	28,00
1968	940	1.70	1,600	18.50	29,60
1969	1,000	1.90	1,900	16.50	31,35
1970	1,160	1.92	2,230	15.00	33,45
1971	1,084	1.94	2,100	16.50	34,65
1972	1,200	1.67	2,000	20.00	40,00
1973	1,200	1.83	2,200	30.00	66,00
1974	1,250	1.92	2,400	35.00	84,00
1975	1,250	2.00	2,500	37.00	92,50
1976	1,400	1.86	2,600	37.68	97,96
1977	1,400	1.86	2,600	37.50	97,50
1978	1,400	2.07	2,900	36.90	107,01
1979	1,350	1.93	2,600	45.36	117,93
1980	1,300	1.15	1,500	63.50	95,25
1981	1,250	2.00	2,500	54.43	136,07
1982	1,250	2.00	2,500	49.90	124,75
1983	1,300	1.85	2,400	49.89	119,73
1984	1,300	1.77	2,300	56.24	129,35
1985	1,350	1.78	2,400	57.00	136,79
1986	1,450	2.34	3,400	55.33	188,12
1987	1,550	2.06	3,200	40.82	130,62
1988	1,600	1.19	1,900	72.00	136,80
1989	1,600	1.75	2,800	47.17	132,07

TABLE 82A: Historical Production and Value of Silage Corn - Metric

Year	Planted Hectares	Yield Per Hectare (tonnes)	Production (000 tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1955	6 300	13.49	85	6.64	564
1956	7 800	11.41	89	6.60	588
1957	7 200	11.39	82	6.60	540
1958	9 600	10.42	100	8.30	825
1959	11 300	11.68	132	7.70	1,022
1960	10 900	11.93	130	7.70	1,001
1961	12 700	8.90	113	10.50	1,188
1962	15 600	15.13	236	7.70	1,820
1963	15 300	17.91	274	7.70	2,114
1964	19 800	11.21	222	6.60	1,470
1965	17 800	13.37	238	7.70	1,834
1966	15 000	13.80	207	7.70	1,596
1967	10 500	12.10	127	7.70	980
1968	11 900	12.77	152	7.70	1,176
1969	9 300	15.27	142	7.70	1,099
1970	8 100	13.46	109	7.70	840
1971	3 900	15.41	64	7.70	490
1972	8 900	16.29	145	11.06	1,600
1973	9 700	15.46	150	13.20	1,980
1974	11 300	16.90	191	15.40	2,940
1975	13 400	19.63	263	16.50	4,350
1976	13 400	18.96	254	16.50	4,200
1977	15 800	20.13	318	16.50	5,250
1978	17 000	21.35	363	18.70	6,800
1979	18 200	17.97	327	16.50	5,389
1980	30 400	12.53	381	28.00	10,668
1981	20 200	17.52	354	20.00	7,076
1982	31 200	15.42	481	18.00	8,655
1983	20 200	15.25	308	21.00	6,468
1984	18 200	13.50	245	22.00	5,390
1985	18 200	15.90	290	21.00	6,090
1986	12 900	21.10	272	15.90	4,325
1987	10 100	20.70	209	15.00	3,135
1988	10 100	14.40	145	14.00	2,020
1989	12 100	18.80	227	14.00	3,178

TABLE 82B: Historical Production and Value of Silage Corn - Imperial

Year	Planted Acres	Yield Per Acre (tons)	Production (000 tons)	Farm Value Price Per Ton $	Farm Value Total ($000)
1955	15,600	6.00	94	6.00	564
1956	19,200	5.10	98	6.00	588
1957	17,900	5.00	90	6.00	540
1958	23,800	4.62	110	7.50	825
1959	28,000	5.21	146	7.00	1,022
1960	26,900	5.32	143	7.00	1,001
1961	31,300	4.00	125	9.50	1,188
1962	38,500	6.75	260	7.00	1,820
1963	37,800	7.99	302	7.00	2,114
1964	49,000	5.00	245	6.00	1,470
1965	44,000	5.95	262	7.00	1,834
1966	37,100	6.15	228	7.00	1,596
1967	26,000	5.38	140	7.00	980
1968	29,500	5.69	168	7.00	1,176
1969	23,000	6.84	157	7.00	1,099
1970	20,000	6.00	120	7.00	840
1971	9,700	7.22	70	7.00	490
1972	22,000	7.27	160	10.00	1,600
1973	24,000	6.88	165	12.00	1,980
1974	28,000	7.50	210	14.00	2,940
1975	33,000	8.79	290	15.00	4,350
1976	33,000	8.48	280	15.00	4,200
1977	39,000	8.97	350	15.00	5,250
1978	42,000	9.52	400	17.00	6,800
1979	45,000	8.00	360	14.97	5,389
1980	75,000	5.60	420	25.40	10,668
1981	50,000	7.80	390	18.14	7,076
1982	77,000	6.88	530	16.33	8,655
1983	50,000	6.80	340	19.02	6,468
1984	45,000	6.00	270	19.96	5,390
1985	45,000	7.11	320	19.03	6,090
1986	32,000	9.38	300	14.42	4,325
1987	25,000	9.20	230	13.63	3,135
1988	25,000	6.40	160	12.62	2,020
1989	30,000	8.33	250	12.71	3,178

TABLE 83A: Historical Production and Value of Sugar Beets - Metric

Year	Harvested Hectares	Yield Per Hectare (tonnes)	Production (tonnes)	Factory Value* Price Per Tonne $	Factory Value* Total ($000)
1955	8 399	22.25	186 858	14.53	2,715
1956	9 230	22.50	207 670	18.56	3,854
1957	8 689	22.91	198 575	13.81	2,742
1958	8 886	20.02	177 909	18.17	3,233
1959	7 092	24.54	174 065	13.15	2,289
1960	10 145	23.11	234 464	15.13	3,547
1961	8 556	19.94	170 640	14.24	2,430
1962	8 727	20.45	178 473	22.28	3,976
1963	11 381	27.71	315 419	18.36	5,791
1964	12 068	21.40	258 285	15.62	4,034
1965	10 488	22.69	237 930	18.92	4,502
1966	9 326	23.79	221 840	18.51	4,106
1967	10 886	18.90	205 691	19.62	4,036
1968	11 768	23.01	270 725	17.61	4,767
1969	12 788	24.34	311 322	19.07	5,937
1970	9 317	21.05	196 084	18.87	3,700
1971	12 495	26.36	329 326	21.03	6,926
1972	11 371	26.39	300 115	24.33	7,301
1973	9 984	27.96	279 039	35.13	9,803
1974	10 899	18.44	200 938	56.14	11,281
1975	12 915	27.83	359 449	39.99	14,374
1976	12 541	27.90	349 919	34.06	11,918
1977	10 238	39.09	400 102	31.30	12,523
1978	9 575	38.93	372 800	38.17	14,230
1979	8 946	27.97	250 187	77.80	19,465
1980	9 845	23.86	234 787	55.61	13,057
1981	11 229	36.20	406 442	41.24	16,762
1982	11 234	33.14	372 271	52.43	19,518
1983	11 123	30.02	333 900	39.62	13,229
1984	10 768	30.84	332 086	33.99	11,288
1985	9 602	30.25	290 474	44.64	12,967
1986	11 017	31.74	349 693	43.32	15,149
1987	10 524	40.29	424 048	41.94	17,785
1988	9 100	24.96	227 300	42.00	9,548
1989	10 500	31.36	329 000	44.00	14,474

*Includes deficiency payments starting in 1958.

TABLE 83B: Historical Production and Value of Sugar Beets - Imperial

Year	Harvested Acres	Yield Per Acre (tons)	Production (tons)	Factory Value* Price Per Ton $	Tota ($000
1955	20,754	9.92	205,974	13.18	2,71
1956	22,808	10.04	228,915	16.84	3,85
1957	21,420	10.22	218,889	12.53	2,74
1958	21,955	8.93	196,109	16.48	3,23
1959	17,525	10.95	191,872	11.93	2,28
1960	25,068	10.31	258,450	13.73	3,54
1961	21,141	8.90	188,096	12.92	2,43
1962	21,565	9.12	196,731	20.21	3,97
1963	28,123	12.36	347,686	16.66	5,79
1964	29,819	9.55	284,708	14.17	4,03
1965	25,917	10.12	262,270	17.16	4,50
1966	23,045	10.61	244,534	16.79	4,10
1967	26,899	8.43	226,733	17.80	4,03
1968	29,079	10.26	298,420	15.98	4,77
1969	31,602	10.86	343,170	17.30	5,93
1970	23,022	9.39	216,143	17.12	3,70
1971	30,876	11.76	363,016	19.08	6,92
1972	28,098	11.77	330,817	22.07	7,30
1973	24,670	12.47	307,585	31.87	9,80
1974	26,931	8.22	221,494	50.93	11,28
1975	31,913	12.42	396,221	36.28	14,37
1976	30,990	12.45	385,716	30.90	11,91
1977	25,292	17.44	441,032	28.40	12,52
1978	23,659	17.37	410,937	34.63	14,23
1979	22,103	12.48	275,781	70.58	19,46
1980	24,326	10.64	258,806	50.45	13,05
1981	27,747	16.15	448,021	37.41	16,76
1982	27,759	14.78	410,354	47.56	19,51
1983	27,484	13.39	368,058	35.94	13,22
1984	26,607	13.76	366,058	30.84	11,29
1985	23,727	13.49	320,180	40.50	12,96
1986	27,222	14.16	385,467	39.30	15,15
1987	26,006	17.97	467,428	38.05	17,78
1988	22,600	11.10	251,000	38.00	9,53
1989	25,900	13.98	362,600	39.92	14,47

*Includes deficiency payments starting in 1958

TABLE 84A: Historical Production and Value of Potatoes - Metric

Year	Planted Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1955	6 111	10 168	62 128	42 64	2.649
1956	6 677	13 935	93 015	24 02	2.234
1957	6 192	8 662	53 594	55 72	2.986
1958	6 313	9 654	60 960	36 42	2.220
1959	6 273	8 599	53 950	45 08	2.432
1960	6 880	11 298	77 724	31 50	2.448
1961	8 215	4 745	38 964	46 25	1.802
1962	9 308	14 311	133 198	22 44	2.989
1963	8 013	13 181	105 613	26 18	2.765
1964	8 417	15 064	126 797	59 06	7.488
1965	9 065	14 688	133 147	53 16	7.077
1966	9 915	15 692	155 550	31 50	4.899
1967	10 724	13 683	147 320	38 19	5.626
1968	10 724	14 211	152 400	36 62	5.580
1969	11 738	16 445	193 040	37 80	7.296
1970	13 354	14 073	187 960	35 44	6.660
1971	13 233	15 742	208 280	34 85	7.257
1972	8 903	14 261	127 000	59 06	7.500
1973	12 140	18 416	223 520	41 34	9.240
1974	14 164	17 575	248 920	51 78	12.887
1975	12 950	17 650	228 600	76 38	17.460
1976	14 000	15 278	213 360	61 62	13.146
1977	15 000	18 656	279 400	72 25	20.185
1978	15 000	23 074	345 440	71 07	24.548
1979	15 000	21 090	315 773	71 07	22.440
1980	16 000	20 023	320 091	104 78	33.539
1981	16 600	21 178	349 047	103 54	36.140
1982	16 226	18 454	299 472	113 39	33.957
1983	16 633	18 077	300 634	119 30	35.863
1984	17 604	18 203	320 466	120 86	38.731
1985	19 263	23 852	411 175	112 41	46.217
1986	18 784	21 642	391 465	82 88	32.442
1987	18 616	26 225	477 622	104 53	49.925
1988	17 806	18 203	309 372	137 01	42.386
1989	18 413	16 947	307 238	147 25	45.239

TABLE 84B: Historical Production and Value of Potatoes - Imperial

Year	Planted Acres	Yield* Per Acre (cwt)	Production* (000 cwt)	Farm Value Price Per cwt $	Farm Value Total ($000)
1955	15,100	81.0	1,223	2.17	2,649
1956	16,500	111.0	1,831	1.22	2,234
1957	15,300	69.0	1,055	2.83	2,986
1958	15,600	76.9	1,200	1.85	2,220
1959	15,500	68.5	1,062	2.29	2,432
1960	17,000	90.0	1,530	1.60	2,448
1961	20,300	37.8	767	2.35	1,802
1962	23,000	114.0	2,622	1.14	2,989
1963	19,800	105.0	2,079	1.33	2,765
1964	20,800	120.0	2,496	3.00	7,488
1965	22,400	117.0	2,621	2.70	7,077
1966	24,500	125.0	3,062	1.60	4,899
1967	26,500	109.4	2,900	1.94	5,626
1968	26,500	113.2	3,000	1.86	5,580
1969	29,000	131.0	3,800	1.92	7,296
1970	33,000	112.1	3,700	1.80	6,660
1971	32,700	125.4	4,100	1.77	7,257
1972	22,000	113.6	2,500	3.00	7,500
1973	30,000	146.7	4,400	2.10	9,240
1974	35,000	140.0	4,900	2.63	12,887
1975	32,000	140.6	4,500	3.88	17,460
1976	34,500	121.7	4,200	3.13	13,146
1977	37,000	148.6	5,500	3.67	20,185
1978	37,000	183.8	6,800	3.61	24,548
1979	37,000	168.0	6,216	3.61	22,440
1980	39,500	159.5	6,301	5.32	33,539
1981	40,900	168.7	6,871	5.26	36,140
1982	40,100	147.0	5,895	5.76	33,955
1983	41,000	144.0	5,918	6.06	35,863
1984	43,500	145.0	6,308	6.14	38,731
1985	47,600	190.0	8,094	5.71	46,217
1986	46,417	172.4	7,706	4.21	32,442
1987	46,000	208.9	9,402	5.31	49,925
1988	44,000	145.0	6,090	6.96	42,386
1989	45,500	135.0	6,048	7.48	45,239

*Based on harvested acres.

TABLE 85A: Historical Marketings of Major Crops - Metric

Crop Year	All Wheat	Oats	Barley	Flax	Canola (Rapeseed)
			- tonnes -		
1954-55	680 019	217 095	752 105	83 369	NA
1955-56	888 412	191 079	495 510	102 853	NA
1956-57	1 072 446	335 506	527 647	172 886	2 600
1957-58	1 133 329	298 601	427 034	73 615	4 100
1958-59	1 282 881	220 797	520 005	91 574	4 600
1959-60	1 317 799	112 365	388 757	84 893	5 000
1960-61	1 289 875	166 080	332 278	130 668	9 600
1961-62	887 949	81 767	178 691	83 420	7 800
1962-63	1 693 706	494 614	272 817	168 009	11 600
1963-64	1 379 000	222 100	186 400	202 400	14 700
1964-65	1 859 400	265 100	190 100	230 100	26 900
1965-66	1 876 700	338 600	285 200	355 400	45 500
1966-67	1 780 500	212 600	312 800	232 200	39 000
1967-68	1 762 300	238 400	269 500	120 400	41 300
1968-69	1 626 000	316 200	241 900	214 200	37 000
1969-70	1 419 800	150 300	588 000	210 700	63 800
1970-71	1 017 800	208 800	633 200	236 900	137 800
1971-72	1 556 800	199 000	1 192 800	116 700	194 800
1972-73	1 768 800	218 200	1 116 800	122 500	191 100
1973-74	1 669 600	216 800	1 002 900	156 400	145 200
1974-75	1 352 400	193 300	704 700	127 800	142 900
1975-76	1 744 300	256 000	631 500	193 300	208 800
1976-77	1 918 500	259 800	974 100	122 300	128 100
1977-78	2 517 500	283 400	1 164 700	262 800	257 000
1978-79	1 913 800	115 800	1 039 200	234 000	472 500
1979-80	2 448 000	38 600	920 500	367 900	471 800
1980-81	1 902 700	42 600	944 100	213 100	274 000
1981-82	2 811 300	84 700	1 354 200	201 900	312 800
1982-83	3 479 800	84 700	1 389 700	352 900	344 800
1983-84	3 029 400	78 800	1 232 200	284 800	304 400
1984-85	3 265 700	79 700	1 327 000	364 500	474 200
1985-86	4 836 200	100 500	1 581 900	452 800	536 500
1986-87	3 455 000	85 000	1 010 000	447 000	526 000
1987-88	3 466 000	108 000	894 000	334 000	494 000
1988-89	2 289 000	94 000	647 000	187 000	510 000

TABLE 85B: Historical Marketings of Major Crops - Imperial

Crop Year	All Wheat	Oats	Barley	Flax	Canola (Rapeseed)
			- thousand bushels -		
1954-55	24,986	14,077	34,543	3,282	NA
1955-56	32,643	12,390	22,758	4,049	NA
1956-57	39,405	21,755	24,234	6,806	116
1957-58	41,642	19,362	19,613	2,898	182
1958-59	47,137	14,317	23,883	3,605	204
1959-60	48,420	7,286	17,855	3,342	220
1960-61	47,394	10,769	15,261	5,144	425
1961-62	32,626	5,302	8,207	3,284	342
1962-63	62,232	32,072	12,576	6,614	511
1963-64	50,669	14,399	8,559	7,968	647
1964-65	68,323	17,191	8,730	9,059	1,188
1965-66	68,958	21,953	13,097	13,991	2,006
1966-67	65,421	13,785	14,369	9,142	1,720
1967-68	64,755	15,460	13,616	4,738	1,820
1968-69	59,744	20,506	11,110	8,431	1,682
1969-70	52,167	9,744	27,008	8,295	2,815
1970-71	37,396	13,542	29,083	9,327	6,078
1971-72	57,203	12,904	54,783	4,593	8,588
1972-73	64,992	14,149	51,295	4,823	8,426
1973-74	61,349	14,057	46,065	6,158	6,402
1974-75	49,693	12,535	32,368	5,031	6,300
1975-76	64,091	16,598	29,005	7,609	9,206
1976-77	70,494	16,843	44,738	4,814	5,647
1977-78	92,502	18,376	53,494	10,346	11,332
1978-79	70,320	7,509	47,730	9,212	20,834
1979-80	89,949	2,503	42,278	14,484	20,803
1980-81	69,912	2,762	45,659	8,389	12,081
1981-82	103,298	5,492	62,198	7,948	13,792
1982-83	127,862	5,492	63,829	13,893	15,203
1983-84	111,312	5,110	56,595	11,212	13,422
1984-85	120,006	5,187	60,949	14,369	20,900
1985-86	177,694	6,549	72,661	17,834	23,677
1986-87	126,951	5,512	46,389	17,597	23,192
1987-88	127,355	7,003	41,061	13,149	21,781
1988-89	84,107	6,095	29,717	7,362	22,487

TABLE 86A: Historical Quantities of Major Grain Stocks on Farms at July 31 - Metric

Year	Wheat	Oats	Barley	Flax	Canola (Rapeseed)
			- tonnes -		
1955	81 648	77 110	174 184	17 781	
1956	108 864	123 376	87 092	2 540	
1957	326 592	539 770	195 957	3 810	
1958	244 944	385 550	130 638	2 540	
1959	217 728	262 174	239 503	5 080	
1960	244 944	277 596	304 822	2 540	
1961	353 808	323 862	239 503	5 080	
1962	54 432	77 110	43 546	5 080	
1963	163 296	200 486	65 319	2 540	
1964	81 648	154 220	65 319	3 810	
1965	190 512	246 752	43 546	2 540	
1966	136 080	185 064	43 546	7 621	
1967	190 512	123 376	65 319	2 540	
1968	571 536	138 798	195 957	1 524	
1969	1 088 640	385 550	435 460	5 080	
1970	1 088 640	462 660	195 957	5 080	
1971	517 104	138 798	108 865	20 322	
1972	707 616	215 908	217 730	25 402	52 200
1973	136 080	123 376	174 180	2 540	1 100
1974	136 080	107 950	174 180	7 620	4 500
1975	54 431	61 688	65 317	15 240	6 800
1976	81 646	92 533	108 900	10 160	49 900
1977	571 500	154 200	87 100	12 700	4 500
1978	490 000	185 000	435 000	38 000	6 800
1979	1 115 800	123 400	544 300	66 000	65 800
1980	326 600	46 300	130 600	76 200	91 000
1981	55 000	30 000	65 000	13 000	46 000
1982	270 000	60 000	200 000	10 000	14 000
1983	110 000	110 000	375 000	45 000	10 000
1984	70 000	60 000	70 000	5 000	2 000
1985	40 000	50 000	70 000	3 000	5 000
1986	40 000	100 000	130 000	20 000	20 000
1987	530 000	80 000	160 000	50 000	10 000
1988	260 000	80 000	310 000	60 000	20 000
1989	50 000	30 000	95 000	15 000	40 000

TABLE 86B: Historical Quantities of Major Grain Stocks on Farms at July 31 - Imperial

Year	Wheat	Oats	Barley	Flax	Canola (Rapeseed)
			- thousand bushels -		
1955	3,000	5,000	8,000	700	
1956	4,000	8,000	4,000	100	
1957	12,000	35,000	9,000	150	
1958	9,000	25,000	6,000	100	
1959	8,000	17,000	11,000	200	
1960	9,000	18,000	14,000	100	
1961	13,000	21,000	11,000	200	
1962	2,000	5,000	2,000	200	
1963	6,000	13,000	3,000	100	
1964	3,000	10,000	3,000	150	
1965	7,000	16,000	2,000	100	
1966	5,000	12,000	2,000	300	
1967	7,000	8,000	3,000	100	
1968	21,000	9,000	9,000	60	
1969	40,000	25,000	20,000	200	
1970	40,000	30,000	9,000	200	
1971	19,000	9,000	5,000	800	
1972	26,000	14,000	10,000	1,000	2,302
1973	5,000	8,000	8,000	100	49
1974	5,000	7,000	8,000	300	198
1975	2,000	4,000	3,000	600	300
1976	3,000	6,000	5,000	400	2,200
1977	21,000	10,000	4,000	500	198
1978	18,000	12,000	20,000	1,500	300
1979	41,000	8,000	25,000	2,600	2,901
1980	12,000	3,000	6,000	3,000	4,012
1981	2,021	1,945	2,985	512	2,028
1982	9,921	3,891	9,186	394	617
1983	4,042	7,133	17,224	1,772	441
1984	2,572	3,891	3,215	197	88
1985	1,470	3,242	3,215	118	220
1986	1,470	6,484	5,971	787	882
1987	19,474	5,187	7,349	1,968	441
1988	9,553	5,187	14,238	2,362	882
1989	1,837	1,945	4,363	591	1,764

TABLE 87: Historical Production Value of Horticultural Crops and Forage Seeds

Year	Potatoes	Vegetables, Fruits Ornamentals	Total Horticulture	Forage Seeds
		- thousand dollars -		
1955	2,649	6,595	9,244	914
1956	2,747	7,315	10,062	1,271
1957	2,992	8,150	11,142	825
1958	2,217	9,000	11,217	682
1959	1,604	9,000	10,604	1,248
1960	1,224	9,200	10,424	1,086
1961	1,228	9,090	10,318	1,254
1962	2,098	9,330	11,428	2,105
1963	2,772	10,125	12,897	1,503
1964	7,488	9,144	16,632	1,259
1965	3,844	8,861	12,705	2,162
1966	4,909	9,078	13,987	1,762
1967	4,400	10,055	14,455	1,238
1968	4,450	9,310	13,760	571
1969	7,297	9,669	16,966	1,524
1970	6,810	9,713	16,523	1,701
1971	7,240	10,632	17,872	1,684
1972	7,680	11,280	18,960	1,542
1973	9,258	11,375	20,633	5,199
1974	12,878	16,614	29,492	2,625
1975	17,500	17,468	34,968	2,031
1976	14,100	19,153	33,253	3,050
1977	21,475	18,252	39,727	3,828
1978	24,560	20,285	44,845	7,488
1979	22,490	21,786	44,276	8,312
1980	33,520	25,077	58,597	4,902
1981	36,140	26,561	62,701	6,681
1982	36,294	29,155	65,449	5,025
1983	36,315	27,187	63,502	7,371
1984	33,562	37,165	70,727	5,563
1985	38,025	35,796	73,821	6,162
1986	33,576	41,460	73,036	8,184
1987	49,889	40,903	90,792	14,093
1988	51,150	44,852	96,002	8,000
1989	46,070	35,756	81,826	11,255

TABLE 88: Historical Value of Livestock Production

Year	Cattle	Hogs	Sheep	Dairy	Poultry	Total
			- thousand dollars -			
1955	34,860	18,392	556	29,689	22,538	106,035
1956	32,384	16,560	510	29,641	24,175	103,270
1957	35,350	20,915	577	29,473	23,000	109,315
1958	51,552	30,143	608	32,307	25,362	139,972
1959	49,764	24,465	559	31,430	23,487	129,705
1960	50,142	17,820	614	30,959	22,031	121,566
1961	51,816	25,662	701	30,952	23,393	132,524
1962	53,048	19,614	609	30,962	21,907	126,140
1963	56,518	23,688	628	30,730	23,860	135,424
1964	54,120	25,740	629	29,986	23,856	134,331
1965	54,929	29,760	552	30,425	26,843	142,509
1966	66,341	38,324	500	29,999	30,179	165,343
1967	66,220	37,048	455	32,699	25,975	162,397
1968	64,944	35,010	400	33,775	28,522	162,651
1969	85,188	58,862	290	32,797	33,271	210,408
1970	92,303	63,826	183	32,063	33,294	221,669
1971	98,978	46,892	391	32,119	27,277	205,657
1972	112,880	71,940	470	35,980	31,879	253,149
1973	155,880	106,190	604	41,731	50,535	354,940
1974	147,840	79,402	621	57,592	52,902	338,357
1975	122,208	89,610	546	66,796	46,413	325,573
1976	113,004	87,591	415	70,360	58,455	329,825
1977	129,168	85,002	416	71,455	58,723	344,764
1978	180,780	110,000	596	67,780	61,437	420,593
1979	258,060	131,075	696	73,176	73,186	536,193
1980	248,880	118,064	871	85,496	80,171	533,482
1981	191,265	138,208	782	96,938	96,663	523,856
1982	188,692	170,408	941	106,036	95,872	561,949
1983	203,148	166,750	916	108,734	103,845	583,393
1984	240,500	191,261	929	116,172	112,550	661,412
1985	261,151	196,840	1,528	113,305	112,057	684,887
1986	296,215	254,533	2,085	117,410	111,869	755,461
1987	243,390	264,000	1,828	132,391	114,805	756,414
1988	290,000	228,000	2,201	129,194	122,550	792,230
1989	245,000	219,000	1,244	142,449	131,217	738,921

TABLE 89: Historical Production and Value of Cattle

Year	Commerical Marketings	Local Slaugh-terings	Inventory Change	Inshipments (minus)	Total	Value Per Animal	Total Value
			- thousand animals -			$	($000)
1955	268	22	54	12	332	105	34,860
1956	292	26	41	7	352	92	32,384
1957	346	32	-22	6	350	101	35,350
1958	356	26	-12	12	358	144	51,552
1959	300	23	45	20	348	143	49,764
1960	317	22	53	26	366	137	50,142
1961	402	26	-16	31	381	136	51,816
1962	313	23	73	60	349	152	53,048
1963	347	24	66	70	367	154	56,518
1964	399	24	49	62	410	132	54,120
1965	528	28	-62	81	413	133	54,929
1966	508	28	-42	87	407	163	66,341
1967	500	28	-52	91	385	172	66,220
1968	468	28	-57	70	369	176	64,944
1969	392	27	84	131	372	229	85,188
1970	416	26	45	104	383	241	92,303
1971	417	26	28	62	409	242	98,978
1972	432	26	42	85	415	272	112,880
1973	429	28	73	97	433	360	155,880
1974	398	26	71	47	448	330	147,840
1975	512	34	-38	52	456	268	122,208
1976	567	31	-40	120	438	258	113,004
1977	639	26	-58	139	468	276	129,168
1978	523	23	-91	62	393	460	180,780
1979	444	21	-43	31	391	660	258,060
1980	444	22	-7	51	408	610	248,880
1981	367	20	-30	46	311	615	191,265
1982	435	15	-80	48	322	586	188,692
1983	378	20	-20	36	342	594	203,148
1984	411	18	-33	28	368	653	240,500
1985	434	9	-27	23	393	664	261,151
1986	459	10	0	25	444	667	296,215
1987	420	10	-28	21	380	640	243,390
1988	425	10	-15	25	395	734	290,000
1989	378	8	0	0	386	634	245,000

TABLE 90: Historical Commercial Marketings of Cattle - Manitoba Origin

Year	Under 1 Year		1 Year and Over		Total		
	Animals (000)	Value ($000)	Animals (000)	Value ($000)	Animals (000)	Value Each $	Value ($000)
1955	82	3,832	186	24,362	268	105	28,194
1956	89	3,810	203	23,114	292	92	26,924
1957	98	4,306	248	30,533	346	101	34,839
1958	101	7,845	255	43,410	356	144	51,255
1959	89	6,675	211	36,162	300	143	42,837
1960	87	6,197	230	37,387	317	137	43,584
1961	111	8,721	291	46,143	402	136	54,864
1962	93	7,921	220	39,778	313	152	47,699
1963	90	6,776	257	46,581	347	154	53,357
1964	109	6,016	290	46,649	399	132	52,665
1965	165	11,068	363	59,234	528	133	70,302
1966	156	13,081	352	69,811	508	163	82,892
1967	165	15,135	335	70,886	500	172	86,021
1968	147	13,065	321	69,510	468	176	82,575
1969	94	10,682	298	79,123	392	229	89,805
1970	97	13,738	319	86,454	416	241	100,192
1971	109	15,674	308	85,169	417	242	100,843
1972	108	16,621	324	100,766	432	272	117,387
1973	105	24,044	324	130,370	429	360	154,414
1974	73	11,460	325	119,880	398	330	131,340
1975	91	9,874	421	127,342	512	268	137,216
1976	102	11,901	465	134,385	567	258	146,286
1977	122	15,494	517	160,870	639	276	176,364
1978	76	20,748	447	219,832	523	460	240,580
1979	73	32,131	371	260,909	444	660	293,040
1980	70	25,054	374	245,786	444	610	270,840
1981	47	14,095	320	211,610	367	615	225,705
1982	68	21,796	367	233,114	435	586	254,910
1983	72	35,576	306	188,956	378	594	224,532
1984	42	14,322	369	254,061	411	653	268,383
1985	56	19,712	378	268,464	434	664	288,176
1986	116	49,519	343	256,634	459	667	306,153
1987	127	72,340	293	196,460	420	640	268,800
1988	116	68,900	309	243,000	425	734	311,900
1989	110	60,000	268	179,600	378	634	239,600

TABLE 91: Historical Production and Value of Hogs

Year	Commercial Marketings	Local Slaughterings	Inventory Change	Total	Value Per Animal ($)	Total Value ($000)
		- thousand animals -				
1955	434	84	-34	484	38	18,392
1956	388	70	-44	414	40	16,560
1957	332	64	49	445	47	20,915
1958	464	54	183	701	43	30,143
1959	654	87	-42	699	35	24,465
1960	506	76	-87	495	36	17,820
1961	519	66	26	611	42	25,662
1962	467	60	-60	467	42	19,614
1963	437	50	77	564	42	23,688
1964	582	52	26	660	39	25,740
1965	579	49	-8	620	48	29,760
1966	595	47	95	737	52	38,324
1967	766	56	20	842	44	37,048
1968	751	53	-26	778	45	35,010
1969	778	50	225	1,053	54	56,862
1970	1,093	50	215	1,358	47	63,826
1971	1,352	57	-175	1,234	38	46,892
1972	1,238	50	20	1,308	55	71,940
1973	1,277	55	-37	1,295	82	106,190
1974	1,270	53	-250	1,073	74	79,402
1975	886	52	-68	870	103	89,610
1976	835	46	22	903	97	87,591
1977	852	37	25	914	93	85,002
1978	895	40	65	1,000	110	110,000
1979	1,084	36	105	1,225	107	131,075
1980	1,250	30	-24	1,256	94	118,064
1981	1,220	23	-9	1,234	112	138,208
1982	1,229	24	0	1,253	136	170,408
1983	1,358	20	72	1,450	115	116,750
1984	1,583	26	40	1,649	116	191,261
1985	1,777	20	-55	1,742	113	196,846
1986	1,743	21	41	1,805	141	254,533
1987	1,825.3	21	67	1,913	138	264,000
1988	2,108.0	21	36	2,165	105	228,000
1989	2,177.0	21	-30	2,169	101	219,000

TABLE 92: Historical Commercial Hog Marketings - Manitoba Origin

Year	Animals (000)	Value Each $	Total Value ($000)
1955	434	38	16,492
1956	388	40	15,520
1957	332	47	15,604
1958	464	43	19,952
1959	654	35	22,890
1960	506	36	18,216
1961	519	42	21,798
1962	467	42	19,614
1963	437	42	18,354
1964	582	39	22,698
1965	579	48	27,792
1966	595	52	30,940
1967	766	44	33,704
1968	751	45	33,795
1969	778	54	42,012
1970	1,093	47	51,371
1971	1,352	38	51,376
1972	1,238	55	68,090
1973	1,277	82	104,714
1974	1,270	74	93,980
1975	886	103	91,258
1976	835	97	80,995
1977	852	93	79,236
1978	895	110	98,450
1979	1,084	107	115,988
1980	1,250	94	117,500
1981	1,220	112	136,640
1982	1,229	136	167,144
1983	1,358	115	156,170
1984	1,583	116	183,628
1985	1,777	113	200,756
1986	1,743	141	245,763
1987	1,825	138	251,850
1988	2,108	105	221,340
1989	2,178	101	219,980

TABLE 93: Historical Sheep and Wool Production and Value

Year	Sheep and Lamb Marketing		Wool			
	Animals (000)	Value ($000)	Kilograms Shorn (000)	Pounds Shorn (000)	Value ($000)	Total Value ($000)
1955	37	480	111	244	76	556
1956	33	425	117	259	85	510
1957	34	496	102	224	81	577
1958	34	507	115	254	101	608
1959	32	455	114	252	104	559
1960	37	502	112	247	112	614
1961	42	561	128	283	140	701
1962	36	492	116	256	117	609
1963	34	516	107	236	112	628
1964	33	528	96	211	101	629
1965	28	439	85	188	113	552
1966	24	422	74	163	78	500
1967	23	384	74	163	71	455
1968	16	337	62	137	63	400
1969	10	240	58	128	50	290
1970	6	126	68	149	57	183
1971	17	357	68	150	34	391
1972	19	437	60	132	33	470
1973	18	507	63	138	97	604
1974	18	569	65	142	52	621
1975	15	520	44	98	26	546
1976	11	374	38	84	32	406
1977	10	388	43	95	35	423
1978	11	570	49	108	50	620
1979	13	655	39	85	57	712
1980	17	806	52	116	80	886
1981	18	700	60	133	82	782
1982	22	883	57	125	54	937
1983	20	874	62	136	57	931
1984	21	895	53	117	65	960
1985	20	1,494	47	104	45	1,539
1986	23	1,906	39	85	41	1,947
1987	21	1,883	37	81	49	1,932
1988	21	1,698	44	98	84	1,782
1989	20	1,148	52	114	76	1,224

TABLE 94A: Historical Dairy Production and Value - Metric

Year	Milk Production		Factory Products		
	Whole Milk or Equivalent (000 kl)	Total Farm Value ($000)	Creamery Butter (000 kg)	Cheddar Cheese (000 kg)	Ice Cream (000 litres)
1955	482	29,689	11 348	473	8 110
1956	471	29,641	10 596	485	7 569
1957	466	29,473	10 683	573	7 683
1958	492	32,307	12 092	314	7 965
1959	478	31,430	11 626	175	8 587
1960	468	30,959	11 239	221	9 547
1961	464	30,952	11 466	250	10 342
1962	466	30,962	11 614	286	10 760
1963	458	30,730	11 295	371	12 297
1964	442	29,986	10 688	428	13 333
1965	417	30,425	9 891	519	13 397
1966	382	29,999	8 559	654	13 220
1967	366	32,699	7 743	961	14 365
1968	367	33,775	8 009	909	14 356
1969	363	32,797	7 765	1 467	14 734
1970	351	32,063	7 100	1 919	15 284
1971	338	32,119	6 225	2 642	14 911
1972	355	35,980	5 906	4 324	15 465
1973	352	41,731	5 446	4 424	16 020
1974	333	57,561	4 611	4 248	17 556
1975	321	66,796	4 745	4 627	19 266
1976	317	70,360	4 055	4 616	20 448
1977	318	71,455	4 131	4 885	18 872
1978	314	67,780	4 276	5 122	18 839
1979	280	73,176	4 205	6 011	19 568
1980	288	85,606	4 199	6 857	20 941
1981	289	96,938	3 774	6 465	21 593
1982	294	106,036	4 266	4 788	20 660
1983	292	108,734	3 857	6 702	20 896
1984	297	116,172	3 847	6 906	19 277
1985	290	113,305	3 746	6 465	18 556
1986	291	117,410	3 859	5 859	16 962
1987	307	121,317	4 147	6 339	17 072
1988	311	129,194	4 506	6 100	16 210
1989	302	131,825	4 285	6 192	16 335

TABLE 94B: Historical Dairy Production and Value - Imperial

Year	Milk Production		Factory Products		
	Whole Milk or Equivalent (million lb)	Total Farm Value ($000)	Creamery Butter (000 lb)	Cheddar Cheese (000 lb)	Ice Cream (000 gals)
1955	1,104	29,689	25,018	1,043	1,784
1956	1,079	29,641	23,360	1,069	1,665
1957	1,066	29,473	23,552	1,263	1,690
1958	1,127	32,307	26,657	693	1,752
1959	1,093	31,430	25,630	385	1,889
1960	1,070	30,959	24,778	487	2,100
1961	1,062	30,952	25,278	551	2,275
1962	1,066	30,962	25,605	631	2,367
1963	1,049	30,730	24,901	817	2,705
1964	1,011	29,986	23,563	944	2,933
1965	955	30,425	21,806	1,145	2,947
1966	875	29,999	18,868	1,441	2,908
1967	837	32,699	17,071	2,118	3,160
1968	840	33,775	17,656	2,004	3,158
1969	831	32,797	17,119	3,235	3,241
1970	804	32,063	15,652	4,230	3,362
1971	774	32,119	13,723	5,824	3,280
1972	813	35,980	13,020	9,532	3,402
1973	805	41,731	12,006	9,753	3,526
1974	763	57,592	10,165	9,366	3,862
1975	735	66,796	10,462	10,201	4,238
1976	725	70,360	8,940	10,176	4,410
1977	728	71,455	9,107	10,769	4,242
1978	718	67,780	9,427	11,290	4,345
1979	641	73,176	9,270	13,252	4,398
1980	659	85,606	9,257	15,117	4,694
1981	661	96,938	8,320	14,253	2,338
1982	673	106,036	9,405	10,556	2,245
1983	668	108,734	8,502	14,776	2,278
1984	680	116,172	8,483	15,225	2,164
1985	664	113,305	8,258	14,253	2,079
1986	666	117,410	8,507	12,917	1,900
1987	703	121,317	9,144	13,975	1,911
1988	712	129,194	9,936	13,448	1,816
1989	691	131,825	9,449	13,651	1,830

TABLE 95: Historical Poultry Production Value

Year	Eggs	Meat	Total**
		- thousand dollars -	
1955	11,290	11,248	22,538
1956	11,573	12,602	24,175
1957	10,882	12,118	23,000
1958	11,327	14,035	25,362
1959	10,160	13,327	23,487
1960	9,990	12,041	22,031
1961	10,079	13,314	23,393
1962	10,467	11,440	21,907
1963	12,119	11,741	23,860
1964	11,519	12,337	23,856
1965	13,429	13,414	26,843
1966	15,877	14,302	30,179
1967	14,378	11,597	25,975
1968	16,624	11,898	28,522
1969	19,944	13,441	33,385
1970	18,679	14,615	33,294
1971	14,176	13,101	27,277
1972	15,931	15,948	31,879
1973	26,992	23,543	50,535
1974	28,280	25,047	53,327
1975	25,774	20,452	46,226
1976	30,693	27,762	58,455
1977	30,232	28,491	58,723
1978	31,805	29,632	61,437
1979	34,978	38,208	73,186
1980	40,069	40,102	80,171
1981	47,940	47,608	95,548
1982	46,054	57,525	103,579
1983	47,375	56,470	103,845
1984	51,808	60,742	112,550
1985	51,323	60,734	112,057
1986	50,471	61,398*	111,869
1987	51,375	63,430	114,805
1988	55,294	58,628	122,550
1989	62,582	59,550	131,217

*Includes value for "started pullets" commencing in 1986.

**Total includes a value for "other poultry".

TABLE 96A: Historical Livestock Prices by Grade, St. Boniface Stockyards - Metric

Year	- LIVE CATTLE - Good Slaughter Steers (A3)	Good Slaughter Cows (D1,D2)	Good Feeder Steers (+350 kg)*	Good and Choice Veal	All Grades Over 227 kg	All Grades Calves Only	HOGS Index 100 Grades Dressed	SHEEP All Live Sheep & Lambs
	- cents per kilogram -							
1955	40.7	26.1	35.4	51.4	30.8	40.7	48.6	33.8
1956	39.5	24.1	35.7	51.2	29.3	38.0	51.6	32.8
1957	39.2	26.2	37.5	52.1	31.4	40.3	62.2	35.9
1958	48.4	36.6	47.6	62.7	42.6	55.2	55.6	37.6
1959	52.6	37.6	50.5	70.0	44.4	53.8	47.0	35.7
1960	47.8	34.2	46.3	67.1	40.4	51.9	47.7	34.8
1961	47.2	34.2	47.3	66.9	40.9	53.7	54.8	33.0
1962	54.8	37.9	53.8	73.5	45.9	60.8	56.6	35.6
1963	50.7	37.7	51.2	71.5	44.5	54.1	54.7	37.5
1964	48.2	34.0	46.0	67.7	39.7	46.4	51.9	38.8
1965	51.3	32.6	48.6	65.7	40.0	47.1	67.6	42.2
1966	55.6	41.6	56.3	75.7	47.2	57.3	73.7	44.1
1967	59.3	44.0	58.5	85.7	50.0	60.3	60.7	41.6
1968	59.2	43.1	59.2	83.6	51.2	62.4	62.0	47.3
1969	64.2	52.8	70.6	92.7	60.4	76.3	78.2	53.2
1970	66.6	51.6	72.8	103.0	62.5	79.0	64.4	59.1
1971	71.4	50.9	74.4	103.8	63.4	81.2	50.4	54.6
1972	77.3	58.3	85.5	117.5	70.2	91.4	75.0	61.3
1973	96.0	77.3	103.1	146.5	85.8	112.2	113.1	74.5
1974	104.5	59.8	89.6	155.0	81.5	90.9	101.7	99.2
1975	89.5	46.9	78.0	97.5	63.1	58.8	137.9	108.5
1976	78.1	50.5	79.4	103.7	61.0	63.4	130.1	110.4
1977	80.4	55.3	83.0	97.8	65.9	66.6	125.2	140.3
1978	118.6	88.0	129.3	163.2	101.9	123.3	149.5	130.3
1979	153.5	125.4	177.4	243.4	142.5	186.5	141.4	182.8
1980	151.7	114.7	167.6	243.7	135.2	176.9	124.9	146.5
1981	154.9	106.0	159.9	238.9	130.8	161.5	148.6	120.9
1982	153.3	102.3	158.3	238.0	124.3	160.0	177.7	101.3
1983	149.5	104.3	159.6	237.3	119.5	170.2	151.0	110.8
1984	162.8	106.9	165.3	241.1	126.5	173.4	154.5	112.9
1985	156.8	107.5	165.8	220.7	121.0	167.4	146.1	123.5
1986	157.8	110.4	167.6	218.2	122.9	178.7	178.8	143.8
1987	165.0	122.1	187.4	256.5	138.6	219.9	172.3	174.3
1988	151.2	122.2	185.4	264.9	137.1	220.5	132.7	175.0
1989	148.74	120.72	186.35	244.4	135.8	201.8	130.0	185.7

*Commencing in 1987: +400 kg (+900 lb).

TABLE 96B: Historical Livestock Prices by Grade, St. Boniface Stockyards - Imperial

Year	- LIVE CATTLE - Good Slaughter Steers (A3)	Good Slaughter Cows (D1,D2)	Good Feeder Steers (+800 lb)*	Good and Choice Veal	All Grades Over 227 kg	All Grades Calves Only	HOGS Index 100 Grades Dressed	SHEEP All Live Sheep & Lambs
	- dollars per 100 pounds -							
1955	18.45	11.85	16.04	23.30	13.95	18.45	22.05	15.35
1956	17.91	10.64	15.15	21.85	13.17	16.99	27.85	15.57
1957	17.78	11.90	17.00	23.65	14.23	18.26	28.20	16.28
1958	21.95	16.60	21.60	28.45	19.31	25.02	25.20	17.06
1959	23.85	17.05	22.90	31.75	20.12	24.39	21.30	16.19
1960	21.70	15.50	21.00	30.45	18.32	23.56	21.65	15.78
1961	21.40	15.50	21.45	30.35	18.55	24.35	24.85	14.95
1962	24.85	17.20	24.40	33.35	20.80	27.60	25.65	16.15
1963	23.00	17.10	23.20	32.45	20.20	24.55	24.80	17.00
1964	21.85	15.40	20.85	30.70	18.00	21.05	23.55	17.60
1965	23.25	14.80	22.05	29.80	18.15	21.35	30.65	19.15
1966	25.20	18.85	25.55	34.35	21.40	26.00	33.45	20.00
1967	26.88	19.95	26.55	38.85	22.70	27.35	27.55	18.85
1968	26.85	19.55	26.85	37.90	23.20	28.30	28.10	21.45
1969	29.10	23.95	32.00	42.05	27.40	34.60	35.45	24.15
1970	30.20	23.42	33.00	46.70	28.35	35.85	29.20	26.80
1971	32.40	23.10	33.75	47.10	28.75	36.85	22.85	24.75
1972	35.07	26.45	38.80	53.30	31.86	41.44	34.00	27.80
1973	43.53	35.06	46.76	66.44	38.91	50.90	51.31	39.93
1974	47.41	27.12	40.62	70.30	36.97	41.22	46.12	45.00
1975	40.58	21.27	35.37	44.24	28.63	26.66	62.55	49.22
1976	35.43	22.92	36.02	47.04	27.67	28.74	59.03	50.10
1977	36.47	25.10	37.66	44.37	29.88	30.23	56.78	63.64
1978	53.78	39.93	58.67	74.04	46.21	55.91	67.83	59.12
1979	69.62	56.88	80.49	110.39	64.62	84.58	64.15	82.94
1980	68.80	52.05	76.04	110.56	61.33	80.25	56.67	66.44
1981	70.26	48.10	72.55	108.37	59.31	73.26	67.40	54.82
1982	69.54	46.42	71.81	107.97	56.38	72.43	80.61	45.95
1983	67.83	47.29	72.38	107.65	54.21	77.18	68.49	50.27
1984	73.83	48.49	74.98	109.38	57.39	78.65	70.10	51.19
1985	71.12	48.75	75.21	100.12	54.89	75.92	66.25	56.04
1986	71.58	50.07	76.03	98.96	55.77	81.06	81.10	65.23
1987	74.84	55.39	85.01	116.36	62.87	99.76	78.16	79.04
1988	68.57	55.45	84.10	120.17	62.21	100.01	60.19	60.04
1989	67.47	54.76	84.53	110.85	61.58	91.52	58.97	63.36

* Commencing in 1987: +400 kg (+900 lb).

TABLE 97: Historical Numbers of Livestock on Farms - July 1

Year	Milk Cows Only	Total Cattle & Calves	Hogs	Sheep	Hens and Chickens*	Turkeys
			- thousand animals or birds -			
1955	221	819	351	76	5,940	550
1956	223	872	311	73	5,990	664
1957	216	885	314	72	6,350	772
1958	209	868	453	78	6,980	932
1959	202	892	503	74	7,000	1,214
1960	198	931	371	76	6,400	880
1961	196	996	432	81	6,267	1,145
1962	185	982	334	76	5,465	970
1963	175	1,066	391	73	5,700	970
1964	172	1,152	460	72	6,270	885
1965	163	1,184	421	61	5,820	1,000
1966	150	1,151	499	51	5,844	1,091
1967	137	1,099	589	45	6,330	925
1968	129	1,029	547	38	6,380	870
1969	121	1,006	615	37	7,340	825
1970	116	1,104	907	40	8,540	900
1971	110	1,138	943	42	7,613	1,033
1972	105	1,210	893	36	7,530	1,000
1973	101	1,247	956	33	4,310	NA
1974	99	1,386	826	26	4,095	NA
1975	96	1,458	582	23	3,787	NA
1976	92	1,411	632	21	3,470	NA
1977	91	1,373	650	19	NA	NA
1978	88	1,262	683	20	NA	NA
1979	80	1,227	804	26	NA	NA
1980	80	1,186	823	28	NA	NA
1981	83	1,162	865	35	6,155	697
1982	80	1,125	865	38	NA	NA
1983	79	1,063	948	39	NA	NA
1984	78	985	1,060	37	NA	NA
1985	78	1,070	1,170	32	NA	NA
1986	65	1,115	1,071	25	6,298	730
1987	65	1,070	1,148	23	NA	NA
1988	66	1,075	1,250	22	NA	NA
1989	66	1,065	1,230	23	NA	NA

*Hens and pullets only since 1973.

OTHER PRODUCTS

TABLE 98: Historical Production Value of Other Farm Products

Year	Honey[1]	Fur[2]	Forest	Total
		- thousand dollars -		
1955	870	3,848	437	5,155
1956	896	3,622	411	4,929
1957	869	3,493	385	4,747
1958	812	3,308	359	4,479
1959	820	3,514	333	4,667
1960	873	3,078	307	4,258
1961	987	2,798	267	4,052
1962	773	3,097	226	4,096
1963	1,117	3,115	186	4,418
1964	1,017	3,111	145	4,273
1965	1,112	4,363	105	5,580
1966	1,379	3,379	117	4,875
1967	1,586	3,102	164	4,852
1968	685	2,827	200	3,712
1969	1,469	2,322	232	4,023
1970	1,520	1,348	250	3,118
1971	1,355	1,088	279	2,722
1972	3,010	1,081	352	4,443
1973	3,874	1,200	400	5,474
1974	3,517	976	378	4,871
1975	3,176	989	362	4,527
1976	4,798	1,320	482	6,600
1977	5,217	1,600	262	7,079
1978	8,019	2,614	258	10,891
1979	9,264	2,568	298	12,130
1980	9,278	2,157	280	11,715
1981	10,748	2,119	1,083	13,950
1982	10,963	1,839	1,054	13,856
1983	9,898	1,878	1,157	12,933
1984	9,753	1,582	1,137	12,472
1985	10,560	6,951	1,195	12,852
1986	10,610	6,867	1,322	18,799
1987	9,903	10,558	1,491	21,952
1988	8,437	7,297	1,516	17,250
1989	7,744	3,749	1,566	13,059

[1]Includes honey, beeswax and leafcutter bees starting in 1986.
[2]Includes wildlife pelts starting in 1985.

RESOURCES

TABLE 99A: Census Land Use, Manitoba Farms, 1941-1986 - Metric

Year	- Improved Land -					Unimproved Land	Total Land
	Crops	Pasture	Fallow	Other	Total		
	- thousand hectares -						
1941	2 561	185	1 120	112	3 978	2 858	6 836
1946	2 608	208	1 036	103	3 955	2 791	6 746
1951	2 968	237	1 019	131	4 355	2 820	7 175
1956	3 110	241	1 144	140	4 635	2 622	7 257
1961	3 112	291	1 307	132	4 842	2 511	7 353
1966	3 518	312	1 080	127	5 037	2 686	7 723
1971	3 691	296	1 074	120	5 181	2 511	7 692
1976	3 848	311	934	124	5 217	2 483	7 700
1981	4 420	353	598	133	5 504	2 112	7 616
1986	4 519	679	509	100	5 403	2 337	7 740

TABLE 100A: Census Farm Numbers and Size, 1941-1986 - Metric

Year	Farms	Average Size	
		Total Hectares	Improved Hectares
1941	58,024	118	68
1946	54,448	124	72
1951	52,383	137	83
1956	49,201	147	94
1961	43,306	170	112
1966	39,747	194	127
1971	34,981	220	148
1976	32,104	240	162
1981	29,442	259	187
1986	27,336	283	198

TABLE 101A: Census Farm Area Land Use by Tenure, 1941-1986 - Metric

Year	Area Operated By:				Total Area	
	Owners	Renters	Owners-Renters	Managers	Owned or Managed	Rented
	- thousand hectares -					
1941	3 744	1 386	1 637	69	4 698	2 138
1946	4 062	973	1 618	94	5 056	1 691
1951	4 264	722	2 019	170	5 580	1 595
1956	4 092	655	2 335	175	5 592	1 665
1961	3 722	552	2 843	236	5 551	1 802
1966	3 878	379	3 228	238	5 938	1 785
1971	3 581	371	3 740	NA	5 691	2 001
1976	3 283	479	3 938	NA	5 500	2 200
1981	2 668	579	4 369	NA	5 098	2 518
1986	NA	NA	NA	NA	4 871	2 869

TABLE 99B: Census Farm Area and Land Use, Manitoba Farms, 1941-86, Imperial

Year	- Improved Land -					Unimproved Land	Total Land
	Crops	Pasture	Fallow	Other	Total		
	- thousand acres -						
1941	6,328	456	2,767	278	9,829	7,062	16,891
1946	6,445	514	2,560	254	9,773	6,898	16,671
1951	7,335	585	2,519	323	10,762	6,968	17,730
1956	7,686	595	2,828	345	11,454	6,478	17,932
1961	7,689	720	3,230	325	11,964	6,206	18,170
1966	8,694	770	2,669	313	12,446	6,638	19,084
1971	9,122	731	2,655	296	12,804	6,204	19,008
1976	9,508	769	2,308	306	12,891	6,135	19,026
1981	10,923	871	1,479	328	13,601	5,218	18,819
1986	11,168	679	1,258	246	13,351	5,775	19,127

TABLE 100B: Census Farm Numbers and Sizes, 1941-1986 - Imperial

Year	Farms	Average Size	
		Total Acres	Improved Acres
1941	58,024	291	169
1946	54,448	306	179
1951	52,383	338	205
1956	49,201	364	233
1961	43,306	420	276
1966	39,747	480	313
1971	34,981	543	366
1976	32,104	593	402
1981	29,442	639	462
1986	27,336	700	488

TABLE 101B: Census Farm Area and Land Use by Tenure, 1941-86 - Imperial

Year	Area Operated By:				Total Area	
	Owners	Renters	Owners-Renters	Managers	Owned or Managed	Rented
	- thousand acres -					
1941	9,252	3,424	4,044	171	11,609	5,283
1946	10,038	2,404	3,997	232	12,494	4,178
1951	10,536	1,784	4,989	421	13,788	3,942
1956	10,111	1,618	5,770	433	13,818	4,113
1961	9,196	1,365	7,026	583	13,716	4,454
1966	9,584	936	7,977	587	14,673	4,411
1971	8,849	917	9,242	NA	14,063	4,945
1976	8,112	1,183	9,731	NA	13,591	5,435
1981	6,592	1,430	10,797	NA	12,596	6,223
1986	NA	NA	NA	NA	12,038	7,089

TABLE 102: Census Farm and Total Population, 1941-1986

Year	Farms	Farm Population	Manitoba Population	Farm Percent of Total
1941	58,024	249,599	729,744	34.2
1946	54,448	224,919	726,923	30.9
1951	52,383	219,233	776,541	28.2
1956	49,201	202,163	850,040	23.8
1961	43,306	172,946	921,686	18.8
1966	39,747	161,662	963,066	16.8
1971	34,981	131,202	988,247	13.3
1976	32,104	114,115	1,021,506	11.2
1981	29,442	98,375	1,026,241	9.6
1986	27,336	84,690	1,071,232	7.9

TABLE 103: Percentage of Persons in Manitoba Farm Households, 15 Years of Age and Over and in the Labour Force by Occupation, 1971, 1981, & 1986

	1971		1981		1986	
Occupation	Number	%	Number	%	Number	%
Farm Operators	26,910	41	22,715	42	22,250	41
Farm Workers	16,970	26	8,750	16	10,460	19
Construction Occupation	2,405	4	1,965	4	1,800	3
Transport Equipment	1,655	3	1,450	3	1,320	2
Clerical and Related	2,285	3	3,585	7	3,720	7
Services Occupation	2,420	4	2,535	5	2,695	5
Teaching and Related	1,300	2	1,160	2	1,220	2
Sales Occupation	1,400	2	1,780	3	1,790	3
Medicine and Health	1,005	2	1,490	3	1,670	3
Product Fabricating	1,325	2	1,620	3	1,245	2
All Other Occupations	7,740	12	6,160	11	5,815	11
Not Applicable	—	—	445	1	365	1
TOTAL	**65,405**	**100**	**53,660**	**100**	**54,345**	**100**

TABLE 104: Census Capital Investment Values, 1941-1986

Year	Land and Buildings	Machinery and Equipment	Livestock	Total	Per Farm
		- million dollars -			$
1941	229	59	51	339	5,800
1946	339	94	71	504	9,300
1951	529	232	156	917	17,500
1956	604	244	110	958	19,500
1961	720	272	162	1,154	26,600
1966	1,178	380	199	1,757	44,200
1971	1,374	412	270	2,056	58,800
1976	3,208	960	367	4,535	141,300
1981	7,836	1,823	792	10,451	355,000
1986	6,584	2,231	739	9,555	349,500

TABLE 105: Historical Quantities of Grain Used for Feed and Seed on Manitoba Farms (includes waste and dockage)

Crop Year	Wheat	Oats	Barley	Wheat	Oats	Barley
	- 000 tonnes -			- million bushels-		
1954 - 1955	245	416	370	9	27	17
1955 - 1956	218	540	457	8	35	21
1956 - 1957	218	601	283	8	39	13
1957 - 1958	218	601	348	8	39	16
1958 - 1959	327	679	327	12	44	15
1959 - 1960	342	643	264	12.6	41.7	12.1
1960 - 1961	398	652	256	14.6	42.3	11.8
1961 - 1962	337	535	214	12.4	34.7	9.8
1962 - 1963	374	1 202	161	13.7	77.9	7.4
1963 - 1964	365	781	161	13.4	50.6	7.4
1964 - 1965	345	768	180	12.7	49.8	8.3
1965 - 1966	328	865	195	12.1	56.1	9.0
1966 - 1967	315	836	276	11.6	54.2	12.7
1967 - 1968	307	764	291	11.3	49.5	13.4
1968 - 1969	334	686	455	12.3	44.5	20.9
1969 - 1970	322	837	522	11.8	54.3	24.0
1970 - 1971	384	932	608	14.1	60.4	27.9
1971 - 1972	430	896	745	15.8	58.1	34.2
1972 - 1973	517	723	778	19.0	46.9	35.7
1973 - 1974	426	770	804	15.7	49.9	36.9
1974 - 1975	336	516	558	12.3	33.5	25.6
1975 - 1976	351	484	434	12.9	31.4	19.9
1976 - 1977	394	620	507	14.5	40.2	23.3
1977 - 1978	313	580	534	11.5	37.6	24.5
1978 - 1979	290	578	703	10.7	37.5	32.3
1979 - 1980	382	346	756	14.0	22.4	34.7
1980 - 1981	274	251	640	10.1	16.3	29.4
1981 - 1982	300	348	841	11.0	22.6	38.6
1982 - 1983	381	389	808	14.0	25.2	37.1
1983 - 1984	441	372	662	16.2	24.1	30.4
1984 - 1985	552	363	611	20.3	23.5	28.1
1985 - 1986	443	344	884	16.3	22.3	40.6
1986 - 1987	587	399	812	21.6	25.9	37.3
1987 - 1988	851	309	894	31.3	20.7	41.1
1988 - 1989	357	179	658	13.1	11.6	31.5

TABLE 106: Historical Numbers of Machinery on Farms

Year	Tractors	Trucks	Combines	Swathers	Balers
1951	50,984	21,163	15,268	—	—
1956	59,265	28,556	21,425	—	—
1961	61,463	31,806	23,662	20,408	8,573
1966	65,552	36,689	24,815	23,530	12,712
1971	64,587	41,306	23,325	23,833	13,472
1976	67,077	49,844	23,467	23,843	14,173
1981	67,342	54,070	22,631	24,291	15,694
1986	73,945	57,502	21,946	24,528	15,317

TABLE 107: Historical Sales of Selected Farm Machinery in Manitoba

Year	Tractors	Combines	Swathers	Balers
1955	2,216	892	679	—
1956	2,189	1,101	1,443	—
1957	2,015	877	861	963
1958	2,263	739	—	1,157
1959	2,486	1,009	768	1,547
1960	2,461	1,079	783	1,518
1961	1,803	496	743	1,043
1962	2,298	1,228	1,221	1,807
1963	2,735	1,378	1,328	1,187
1964	3,221	1,572	2,231	1,399
1965	3,037	1,900	2,339	1,212
1966	3,692	1,702	1,709	1,021
1967	2,973	1,454	1,838	642
1968	1,949	1,223	1,763	562
1969	1,610	642	1,100	537
1970	1,482	393	606	489
1971	1,138	482	772	485
1972	1,583	506	958	595
1973	2,371	856	1,462	779
1974	2,622	675	939	731
1975	2,823	856	1,471	1,007
1976	2,730	604	1,515	1,163
1977	2,190	1,012	1,131	850
1978	2,485	695	NA	297
1979	2,610	1,018	1,191	817
1980	2,251	781	1,249	810
1981	2,132	1,056	1,328	645
1982	1,787	636	977	465
1983	1,453	578	740	481
1984	1,550	580	787	383
1985	1,641	809	867	419
1986	1,378	591	430	529
1987	1,005	245	570	464
1988	1,040	145	380	510
1989	1,073	277	392	492

TABLE 108: Historical Sales of Fertilizers

Year Ending June 30	Major Formulations[1]	Other Materials[2]	Total	Major Formulations[1]	Other Materials[2]	Total
	tonnes			tons		
1955	12 808	452	13 260	14,118	498	14,61
1956	13 408	617	14 025	14,780	680	15,46
1957	13 526	684	14 210	14,910	754	15,66
1958	14 042	736	14 777	15,478	811	16,28
1959	18 329	807	19 136	20,204	890	21,09
1960	19 602	777	20 379	21,607	857	22,46
1961	26 022	1 130	27 152	28,684	1,246	29,93
1962	30 004	1 802	31 806	33,073	1,986	35,05
1963	41 376	1 376	42 752	45,608	1,517	47,12
1964	51 918	2 377	54 295	57,229	2,620	59,84
1965	65 104	2 420	67 525	71,764	2,668	74,43
1966	135 560	3 590	139 150	149,427	3,957	153,38
1967	160 425	3 902	164 327	176,835	4,301	181,13
1968	216 233	3 547	219 775	238,352	3,910	242,26
1969	124 874	3 888	128 763	137,648	4,286	141,93
1970	116 632	3 706	120 338	128,563	4,085	132,64
1971	172 860	4 354	177 213	190,542	4,799	195,34
1972	189 251	7 255	196 506	208,610	7,997	216,60
1973	271 469	6 125	277 593	299,238	6,751	305,98
1974	317 689	8 553	326 242	350,192	9,428	359,62
1975	340 129	4 521	344 650	374,928	4,983	379,91
1976	363 771	5 587	369 358	400,989	6,159	407,14
1977	360 072	7 037	367 109	396,908	7,757	404,66
1978	451 158	4 650	455 808	497,317	5,126	502,44
1979	538 900	4 800	543 700	594,029	5,291	599,32
1980	545 900	2 200	548 100	601,746	2,425	604,17
1981	513 000	4 000	517 000	565,480	4,409	569,88
1982	517 800	3 500	521 300	570,600	3,900	574,50
1983	502 600	1 400	504 000	554,070	1 500	555,57
1984	583 200	5 500	588 700	642,800	6,100	648,90
1985	669 100	5 400	674 500	737,706	5,954	743,66
1986	665 900	900	666 800	734,200	992	735,14
1987	568 100	47 900	616 000	626,330	52,809	679,14
1988	641 000	37 200	678 200	706,702	41,013	747,71
1989	580 900	46 600	627 500	640,400	51,400	691,80

[1]Includes ammonium phosphate, ammonium nitrate, urea, anhydrous ammonia, nitrogen solutions, ammonium sulphate, potassium chloride.

[2]Includes other nitrogen, other phosphates and other fertilizers.

Farm Input Price Index

This index measures the impact of price changes on the cost of a constant base-year basket of capital material and service inputs. Items included are weighted according to relative importance and grouped according to farm use.

TABLE 109: Farm Input Price Indices, Western Canada (1981 = 100)

Year	Bldg. and Fencing	Machinery Replacement	Machinery Operation	Crop Production	Animal Production	Supplies and Services	Hired Farm Labour	Total Farm Inputs
1976	66.4	59.8	57.8	68.4	61.9	60.3	69.8	58.2
1977	71.6	64.2	62.2	65.5	61.6	64.7	77.5	59.7
1978	78.3	70.7	65.3	67.8	79.5	69.4	82.3	67.5
1979	87.4	79.9	70.5	74.9	100.7	76.3	87.2	79.1
1980	91.7	89.9	81.9	93.5	99.3	83.3	93.5	87.0
1981	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1982	106.8	106.3	112.8	98.2	99.7	109.2	106.3	103.4
1983	115.4	110.9	118.0	95.6	100.6	114.4	110.1	103.6
1984	114.2	113.5	122.2	98.7	102.3	120.0	114.7	106.6
1985	115.7	111.2	125.8	101.1	101.8	122.4	118.4	108.0
1986	123.2	113.5	118.0	100.6	108.8	122.3	121.6	108.2
1987	126.7	112.4	115.6	94.6	119.6	124.5	123.8	109.6
1988	127.1	111.6	117.3	93.5	121.8	126.6	128.8	111.5
1989	129.2	112.0	120.8	99.9	118.3	126.8	134.1	114.1

The groups in the above table consist of the following sub groups or items.

Building and Fencing - includes building replacement and repairs (materials and labour) and fencing construction and repairs.

Machinery Replacement - (1) includes tractors, combines, ploughs, disc harrows, grain drills, manure spreaders, balers, automobiles and trucks.

Machinery and Motor Vehicle Operation - (1) includes petroleum products, maintenance, licence and motor vehicle insurance.

Crop Production - (2) includes grain legume and grass seed, fertilizer, pesticides and twine.

Animal Production - (2) includes feeder livestock - cattle, hogs, chick and turkey poults feed - prepared and grain feed; and artificial insemination.

Supplies and Services - includes small tools, electricity, telephone and custom work.

Hired Labour - includes hourly, daily and monthly rates.

(1)Farm share only.
(2)Aggregations of only a partial list of inputs identifiable to the respective types of farming and should not be construed as production cost indices.

TABLE 110: Farm Product Price Indices (1986 = 100)

	1981	1982	1983	1984	1985	1986	1987	1988	1989
TOTAL INDEX	**117.4**	**113.0**	**111.0**	**119.6**	**110.7**	**100.0**	**95.1**	**106.2**	**113.9**
TOTAL CROPS	**144.1**	**113.9**	**130.5**	**142.1**	**128.8**	**100.0**	**87.7**	**115.6**	**129.7**
Cereals	152.5	135.9	133.5	139.8	127.7	100.0	86.8	113.2	129.6
Oilseeds	129.3	127.7	131.5	161.0	140.1	100.0	83.5	130.5	135.8
All Other Crops[1]	110.8	110.8	105.4	120.9	114.0	100.0	103.3	103.3	117.6
TOTAL LIVESTOCK & PRODUCTS	**89.1**	**93.0**	**90.3**	**95.8**	**91.6**	**100.0**	**102.9**	**96.3**	**97.2**
Cattle and Calves	92.7	89.3	91.9	99.1	94.4	100.0	110.9	106.8	105.5
Hogs	81.1	96.9	82.1	84.3	78.9	100.0	97.7	74.6	72.4
Poultry	95.1	95.8	95.4	106.1	99.7	100.0	95.2	97.9	105.9
Eggs	99.3	96.4	96.9	105.0	102.4	100.0	92.0	99.2	112.4
Dairy	84.2	91.4	93.1	97.7	97.0	100.0	98.8	104.1	109.1
Other Livestock & Products[2]	111.1	113.5	110.6	105.1	100.6	100.0	101.0	91.3	80.9

[1]Includes fruits, vegetables (including potatoes), sugar beets and sunflowerseed.

[2]Includes lamb, honey and fur.

The Farm Product Price Index (FPPI), formerly called Index Numbers of Farm Prices of Agricultural Products, gives a measure of the change over time in the prices received by farmers for agricultural commodities at the first point of sale.

The Index is based on products accounting for about 95 percent of total farm cash receipts.

The price information used in compiling the index comes from a monthly survey of farm correspondents (Statistics Canada), administrative data. Bonuses and premiums are included in the prices but storage, transportation costs, processing and handling charges are excluded.

Correspondents report the average prices prevailing in an area after grades are considered.

The average prices would vary due to price and/or quality changes. In effect, the Index does not measure pure price change but only the change in revenue to farmers per unit of product marketed. Adjustments for seasonal variation in prices are not made.

TABLE 111: Manitoba Farm Cash Receipts

Year	Crop Receipts	Livestock Receipts	Other Receipts	Total Cash Receipts
		- thousand dollars -		
1955	79,121	93,469	5,779	178,369
1956	114,421	93,853	2,771	211,045
1957	97,046	100,200	886	198,132
1958	100,752	121,042	9,009	230,803
1959	112,999	114,842	2,687	230,528
1960	113,719	108,193	10,925	232,837
1961	114,253	124,778	3,730	242,761
1962	136,379	114,225	12,113	262,717
1963	147,707	121,768	2,273	271,748
1964	170,778	128,266	2,486	301,530
1965	184,173	155,935	2,505	342,613
1966	200,084	172,842	4,953	377,879
1967	193,198	174,481	7,123	374,802
1968	187,754	170,713	6,396	364,863
1969	168,823	176,516	5,727	351,066
1970	128,703	202,614	10,110	341,427
1971	173,905	193,543	10,352	377,800
1972	238,844	238,876	18,989	496,709
1973	281,819	328,437	17,786	628,042
1974	481,012	332,025	14,127	827,164
1975	565,301	346,184	35,533	947,018
1976	489,781	353,412	43,410	886,603
1977	472,226	378,401	31,145	881,772
1978	595,864	498,186	49,804	1,143,854
1979	711,094	562,649	66,665	1,340,408
1980	819,870	595,536	76,281	1,491,687
1981	962,068	605,461	80,490	1,648,019
1982	1,004,734	668,614	47,609	1,720,957
1983	1,099,368	620,091	78,130	1,797,589
1984	1,157,012	688,418	134,201	1,979,631
1985	1,104,980	722,440	172,246	1,999,666
1986	1,067,447	769,371	237,746	2,074,564
1987	806,411	807,981	477,557	2,091,949
1988	871,116	761,311	431,893	2,064,320
1989	892,116	760,937	448,647	2,101,700

TABLE 112: Manitoba Farm Cash Receipts From Crop Sales

Year	Wheat	Oats	Barley	Flaxseed	Canola (Rapeseed)	Other Crops	Total Crops
			- thousand dollars -				
1955	29,975	6,331	24,266	10,394		8,155	79,121
1956	50,534	11,641	23,594	16,611		12,041	114,421
1957	46,184	10,354	14,425	11,143		14,940	97,046
1958	58,122	7,649	16,156	7,952	295	10,578	100,752
1959	66,990	6,548	18,724	11,113	211	9,413	112,999
1960	66,349	6,378	15,108	12,189	754	12,941	113,719
1961	81,410	5,522	10,367	12,603	526	3,825	114,253
1962	77,416	10,129	11,395	20,654	884	15,901	136,379
1963	91,003	12,478	9,362	16,707	1,497	16,660	147,707
1964	99,832	12,423	10,059	29,323	3,047	16,094	170,778
1965	110,968	11,593	12,172	25,320	3,170	20,950	184,173
1966	114,363	14,457	13,936	33,996	4,619	18,713	200,084
1967	120,418	12,171	15,830	20,655	3,544	20,580	193,198
1968	109,486	11,292	17,127	15,192	3,103	31,554	187,754
1969	72,057	12,886	13,268	25,685	5,418	39,509	168,823
1970	72,317	6,347	21,472	17,613	9,727	1,227	128,703
1971	77,144	7,747	31,961	14,710	14,091	28,252	173,905
1972	113,272	11,553	45,302	12,988	19,901	35,828	238,844
1973	120,963	15,684	69,946	38,535	32,472	4,219	281,819
1974	225,296	14,649	100,889	61,350	50,120	28,708	481,012
1975	287,418	28,879	99,019	38,140	42,461	69,384	565,301
1976	243,166	23,883	80,402	39,881	29,040	73,409	489,781
1977	182,535	22,151	70,867	42,099	56,694	97,880	472,226
1978	234,187	15,681	99,334	54,594	90,696	101,372	595,864
1979	281,269	6,200	102,939	77,247	122,522	120,917	711,094
1980	388,022	4,907	93,564	92,919	99,492	140,966	819,870
1981	473,512	6,983	147,752	74,343	75,337	184,141	962,068
1982	512,010	7,211	161,038	67,409	99,509	157,557	1,004,734
1983	582,917	8,464	160,290	107,918	120,997	118,782	1,099,368
1984	618,065	8,406	134,887	96,942	138,996	159,716	1,157,012
1985	517,057	7,674	152,892	124,168	138,738	164,451	1,104,980
1986	537,768	9,030	146,906	83,102	125,064	164,748	1,066,618
1987	406,000	7,544	63,759	62,689	108,806	154,934	803,732
1988	440,817	13,251	63,272	73,190	136,860	122,711	850,101
1989	410,565	12,746	85,811	75,187	123,086	184,721	892,116

TABLE 113: Manitoba Farm Cash Receipts From Livestock Sales

Year	Cattle & Calves	Hogs	Sheep & Lambs	Dairy Products	Poultry & Eggs	Other Livestock & Products	Total Livestock
				- thousand dollars -			
1955	28,153	16,405	454	22,806	20,007	5,644	93,469
1956	28,356	14,996	406	23,051	21,551	5,493	93,853
1957	35,105	15,717	449	22,834	20,677	5,418	100,200
1958	46,556	20,501	484	25,040	23,086	5,375	121,042
1959	39,920	23,185	461	24,144	21,574	5,558	114,842
1960	40,298	17,884	466	23,868	20,570	5,107	108,193
1961	51,535	22,356	527	24,084	21,155	5,121	124,778
1962	44,074	20,628	445	24,096	19,970	5,012	114,225
1963	48,095	19,440	523	23,984	24,228	5,498	121,768
1964	51,026	23,582	544	23,699	23,972	5,443	128,266
1965	71,573	27,415	462	24,209	26,233	6,997	155,935
1966	78,326	35,084	346	24,484	30,464	6,567	172,842
1967	80,557	37,280	325	27,390	27,445	6,209	174,481
1968	76,234	36,074	244	28,388	29,763	5,323	170,713
1969	68,167	44,324	255	27,592	34,743	5,476	176,516
1970	81,239	58,021	213	27,247	34,367	4,884	202,614
1971	85,593	51,211	362	24,171	27,611	4,595	193,543
1972	105,548	66,293	362	28,183	32,173	6,317	238,876
1973	132,136	104,071	402	31,503	52,081	8,244	328,437
1974	131,791	94,758	497	42,951	54,005	8,023	332,025
1975	152,366	87,866	390	50,142	47,593	7,827	346,184
1976	155,618	79,877	383	52,087	55,843	9,604	353,412
1977	178,756	78,230	432	53,122	56,853	11,008	378,401
1978	260,375	105,026	657	57,335	59,492	15,301	498,186
1979	297,132	115,682	694	63,419	68,586	17,136	562,649
1980	308,756	117,432	860	75,491	75,618	17,379	595,536
1981	267,793	137,549	1,078	86,587	84,077	28,377	605,461
1982	286,854	169,466	1,096	95,944	84,683	30,571	668,614
1983	250,573	156,633	1,396	97,798	85,293	28,398	620,091
1984	273,287	185,928	1,536	104,926	93,398	29,343	688,418
1985	297,161	194,859	2,349	102,370	94,456	31,245	722,440
1986	293,441	242,080	1,906	106,782	96,256	31,031	771,496
1987	322,550	252,722	1,883	110,246	96,095	32,468	815,964
1988	299,737	218,757	1,711	118,185	102,743	30,439	771,572
1989	272,155	228,741	1,686	121,201	109,445	27,709	760,937

TABLE 114: Manitoba Farm Operating Expenses and Depreciation Charges

Year	Machinery Operation	Dep. Bldgs. & Mach.	Interest on Debt	Rent & Taxes	Hired Labour	Feed & Seed Bought Comm.	Fert.	Other	Total Value
				- thousand dollars -					
1955	39,251	31,983	6,472	14,467	10,256	10,119	1,526	10,928	125,002
1956	41,176	31,249	6,412	16,759	11,058	11,055	1,571	11,797	131,077
1957	41,682	31,986	6,373	15,379	11,523	10,594	1,666	11,569	130,772
1958	41,396	32,397	6,662	16,862	11,930	12,324	1,584	12,849	136,004
1959	43,585	32,644	7,228	17,536	12,024	12,904	2,120	14,100	142,141
1960	46,518	33,692	7,790	19,166	12,108	13,611	2,213	15,200	150,298
1961	46,028	33,971	8,833	18,882	12,571	14,420	3,494	14,940	153,139
1962	47,540	34,777	10,109	21,110	12,338	21,753	3,237	17,074	167,938
1963	47,953	36,971	11,635	22,290	11,507	17,930	4,558	19,467	172,311
1964	49,613	40,289	14,119	22,339	11,530	19,514	5,925	21,931	185,260
1965	49,989	44,160	15,942	23,434	14,281	19,724	7,564	24,628	199,722
1966	51,551	48,150	17,948	23,829	14,341	24,487	15,302	27,966	223,574
1967	53,438	52,593	20,205	24,749	15,565	32,100	18,521	31,160	248,331
1968	54,919	55,967	23,593	25,961	15,964	28,058	24,772	33,104	262,338
1969	56,353	56,245	27,315	25,241	15,881	28,373	13,050	30,188	252,646
1970	57,573	55,633	22,173	24,938	15,943	29,359	10,906	30,543	247,068
1971	60,949	53,478	22,275	27,272	16,228	30,939	15,780	48,839	275,760
1972	65,567	55,190	31,487	30,075	16,891	36,896	18,903	59,818	314,822
1973	76,247	60,089	28,210	39,900	18,925	53,233	26,708	71,014	374,326
1974	96,805	77,967	38,512	46,411	22,921	72,156	36,732	91,605	483,109
1975	105,862	104,760	43,997	56,644	26,900	75,269	59,390	108,080	580,902
1976	117,478	129,358	57,735	61,852	28,174	81,730	65,274	129,933	671,534
1977	132,908	144,682	63,062	70,226	31,050	84,556	73,516	152,486	752,486
1978	151,609	164,248	81,506	83,437	35,121	88,146	101,402	169,427	874,896
1979	166,105	191,918	118,584	100,562	41,255	116,498	133,540	210,926	1,079,388
1980	185,626	222,211	147,996	117,050	49,576	150,440	145,361	227,080	1,245,340
1981	251,176	249,600	210,582	124,535	63,176	153,403	162,959	275,020	1,490,451
1982	275,545	266,368	189,380	134,440	76,832	147,992	167,540	279,748	1,537,875
1983	294,956	275,760	169,374	139,279	74,992	169,352	188,069	297,601	1,609,383
1984	300,254	274,698	177,900	146,856	86,341	200,327	211,073	315,198	1,712,647
1985	305,450	263,781	169,052	152,672	99,015	193,141	219,153	351,647	1,753,911
1986	280,102	271,002	168,260	145,734	100,691	199,079	198,446	332,494	1,695,808
1987	280,693	265,332	165,374	125,449	101,335	198,366	187,191	350,403	1,672,143
1988	251,916	271,727	166,812	122,754	116,899	215,188	194,405	366,984	1,706,685
1989	280,677	280,784	173,666	135,940	121,594	228,028	194,405	405,261	1,820,355

TABLE 115: Manitoba Farm Income Summary

Year	Total Cash Receipts	Income in Kind	Realized Gross Income	Operating & Dep. Cost	Realized Net Income	Value of Inventory Change	Total Net Income
			- million dollars -				
1955	173	13	191	125	66	18	84
1956	209	13	224	131	93	32	124
1957	198	13	211	131	81	-12	68
1958	222	14	245	136	109	16	124
1959	229	13	243	142	101	-4	97
1960	223	12	245	150	94	8	103
1961	239	12	255	153	102	-57	45
1962	251	11	274	168	106	53	159
1963	270	11	283	172	110	-4	107
1964	299	10	312	185	127	29	156
1965	342	11	354	200	154	10	164
1966	377	10	388	224	165	-27	137
1967	375	10	385	248	136	16	152
1968	365	10	375	262	112	51	163
1969	351	10	362	253	109	9	118
1970	336	10	351	247	104	-15	89

	Total Cash Receipts	Operating Expenses After Rebates	Net Cash Income	Income In-Kind	Depreciation Charges	Realized Net Income	Value of Inventory Change	Total Net Income
				- million dollars -				
1971	378	217	161	9	53	116	39	155
1972	497	255	242	10	55	196	-32	164
1973	628	310	318	12	60	270	95	365
1974	827	400	428	10	78	360	-49	311
1975	947	470	477	9	105	382	9	391
1976	887	534	352	12	129	235	40	275
1977	882	596	286	10	145	151	130	281
1978	1,144	699	445	12	164	292	49	341
1979	1,340	876	464	13	192	285	-53	233
1980	1,492	1,011	481	15	222	274	-234	39
1981	1,648	1,229	419	15	250	184	225	410
1982	1,721	1,258	463	14	266	211	78	289
1983	1,798	1,320	477	14	276	215	-163	52
1984	1,980	1,420	559	14	275	299	13	313
1985	2,000	1,471	528	14	264	278	283	561
1986	2,076	1,401	675	14	271	419	-35	384
1987	2,097	1,380	717	15	265	466	-78	388
1988	2,054	1,368	686	14	272	428	-233	196
1989	2,102	1,540	562	14	281	295	139	434

TABLE 116: Per Farm Total Net Income and Total Receipts, Manitoba

Year	No. of Farms	Total Net Income (Production Minus Cost)	Cash (Sales)
		dollars per farm	
1955	49,750	1,693	3,478
1956	49,201	2,525	4,241
1957	47,900	1,423	4,126
1958	46,700	2,660	4,757
1959	45,600	2,134	5,018
1960	44,400	2,317	5,025
1961	43,306	1,035	5,527
1962	42,600	3,726	5,891
1963	41,900	2,543	6,444
1964	41,200	3,780	7,265
1965	40,500	4,053	8,451
1966	39,747	3,459	9,490
1967	38,700	3,934	9,679
1968	37,700	4,319	9,674
1969	36,700	3,210	9,552
1970	35,800	2,480	9,378
1971	34,981	4,427	10,800
1972	34,400	4,776	14,439
1973	33,825	10,801	18,567
1974	33,250	9,368	24,877
1975	32,675	11,959	28,983
1976	32,104	8,574	27,617
1977	31,600	8,887	27,904
1978	31,000	11,011	36,898
1979	30,500	7,624	43,948
1980	30,000	1,317	49,723
1981	29,442	13,915	55,975
1982	29,300	9,856	58,736
1983	29,000	1,805	61,986
1984	29,000	10,777	68,263
1985	28,700	19,562	69,675
1986	27,336	14,034	75,939
1987	27,336	14,191	76,721
1988	27,200	7,196	75,499
1989	26,800	16,194	78,433

TABLE 117: Price Index of Farm Products (1986 = 100)

1981	117.4
1982	113.0
1983	111.0
1984	119.6
1985	110.7
1986	100.0
1987	95.1
1988	106.2
1989	113.9

TABLE 118A: Monthly Precipitation in Winnipeg - Metric

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
							- millimetres -						
1964	17	5	50	54	34	119	22	71	35	6	16	31	460
1965	6	14	14	65	91	60	80	34	65	14	44	38	525
1966	9	10	41	47	38	36	86	105	18	22	26	21	459
1967	21	9	17	73	28	50	111	57	23	45	15	21	470
1968	21	5	13	32	99	83	144	143	59	40	4	9	652
1969	48	9	10	25	77	105	101	57	61	27	9	19	548
1970	23	15	27	65	87	50	70	75	112	27	27	23	601
1971	11	4	44	60	47	76	115	17	50	72	22	6	524
1972	16	10	20	13	29	50	60	103	61	25	10	25	422
1973	3	6	14	21	103	88	123	66	82	37	40	19	602
Average 1964 - 1973	17.5	8.7	25.0	45.5	63.3	71.7	91.2	72.8	56.6	31.5	21.3	21.2	525.3
1974	39	11	15	59	156	18	32	110	46	5	6	13	510
1975	46	16	19	45	48	120	58	133	42	38	13	17	595
1976	30	23	23	32	10	183	37	59	10	2	1	18	428
1977	12	21	10	5	178	88	85	90	148	30	29	19	715
1978	10	8	11	23	123	51	61	18	83	10	43	21	462
1979	9	20	45	73	93	65	23	76	25	16	15	11	471
1980	34	17	13	0	8	45	24	110	86	33	25	11	406
1981	23	3	15	13	48	90	39	104	72	60	6	7	480
1982	26	8	36	13	23	54	107	59	58	62	6	32	484
1983	13	15	66	6	29	139	30	85	53	22	16	6	480
Average 1974 - 1983	24.2	14.2	25.3	26.9	71.6	85.3	49.6	84.4	62.3	27.8	16.0	15.5	503.1
1984	12	8	12	47	30	228	38	21	62	99	27	22	606
1985	11	13	7	16	64	67	34	218	29	29	44	14	546
1986	9.6	12.9	16.9	98.3	25.2	59.2	118.0	17.0	47.5	11.6	48.4	6.4	471
1987	21.3	17.5	22.7	38.5	65.7	80.1	75.9	75.2	53.3	30.9	25.2	19.2	525.5
1988	8.8	10.7	24.2	0.8	29.9	94.9	70.8	8.5	61.3	26.8	21.3	22.5	380.5
1989	21.3	17.5	22.7	38.5	65.7	80.1	75.9	75.2	53.3	30.9	25.2	19.2	525.5
Average 1984 - 1989	14.0	13.3	17.6	39.9	46.7	101.5	68.8	69.1	51.1	38.0	31.9	17.2	509.1

TABLE 118B: Monthly Precipitation in Winnipeg - Imperial

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
							- inches -						
1964	0.66	0.20	1.98	2.14	1.34	4.69	0.88	2.80	1.36	0.23	0.62	1.20	18.10
1965	0.22	0.55	0.53	2.55	3.60	2.37	3.15	1.36	2.55	0.57	1.74	1.51	20.70
1966	0.37	0.41	1.61	1.85	1.50	1.41	3.38	4.14	0.71	0.85	1.03	0.83	18.09
1967	0.81	0.37	0.69	2.86	1.11	1.98	4.37	2.25	0.89	1.78	0.58	0.83	18.52
1968	0.84	0.19	0.52	1.27	3.90	3.26	5.66	5.63	2.31	1.59	0.15	0.35	25.67
1969	1.87	0.34	0.39	1.00	3.02	4.13	3.99	2.25	2.40	1.07	0.37	0.74	21.57
1970	0.90	0.59	1.08	2.57	3.41	1.99	2.74	2.95	4.41	1.05	1.05	0.92	23.66
1971	0.42	0.18	1.72	2.37	1.85	2.99	4.53	0.67	1.96	2.84	0.88	0.23	20.64
1972	0.63	0.41	0.79	0.51	1.14	1.98	2.37	4.06	2.41	0.97	0.41	1.00	16.68
1973	0.10	0.25	0.54	0.83	4.06	3.47	4.84	2.58	3.23	1.46	1.58	0.75	23.69
Average													
1964 - 1973	0.69	0.34	0.98	1.79	2.49	2.82	3.59	2.87	2.23	1.24	0.84	0.83	20.69
1974	1.54	0.44	0.60	2.31	6.14	0.70	1.26	4.32	1.81	0.21	0.22	0.51	20.06
1975	1.80	0.61	0.74	1.80	1.86	4.73	2.29	5.22	1.64	1.50	0.51	0.67	23.37
1976	1.17	0.91	0.91	1.24	0.41	7.19	1.45	2.32	0.39	0.10	0.03	0.72	16.84
1977	0.49	0.82	0.39	0.20	7.00	3.48	3.36	3.53	5.83	1.19	1.12	0.74	28.15
1978	0.40	0.30	0.45	0.90	4.83	2.03	2.38	0.73	3.25	0.40	1.68	0.82	18.17
1979	0.35	0.79	1.78	2.89	3.67	2.56	0.91	3.00	0.98	0.61	0.58	0.44	18.56
1980	1.34	0.69	0.52	0	0.31	1.77	0.93	4.32	3.37	1.30	0.98	0.43	15.96
1981	0.91	0.13	0.57	0.50	1.87	3.56	1.54	4.08	2.85	2.35	0.23	0.29	18.88
1982	1.01	0.31	1.41	0.52	0.92	2.13	4.21	2.32	2.29	2.44	0.22	1.25	19.03
1983	0.50	0.59	2.58	0.25	1.15	5.48	1.17	3.35	2.08	0.85	0.64	0.22	18.86
Average													
1974 - 1983	0.95	0.56	1.00	1.06	2.82	3.36	1.95	3.32	2.45	1.09	0.63	0.61	19.81
1984	0.48	0.31	0.46	1.85	1.17	8.97	1.51	0.85	2.44	3.90	1.05	0.88	23.87
1985	0.44	0.53	0.28	0.63	2.52	2.64	1.34	8.58	1.14	1.14	1.73	0.55	21.50
1986	0.38	0.51	0.67	3.87	0.99	2.33	4.65	0.67	1.87	0.46	1.91	0.25	18.56
1987	0.84	0.69	0.89	1.52	2.59	3.15	2.99	2.96	2.10	1.22	0.99	0.76	20.69
1988	0.35	0.42	0.95	0.03	1.18	3.74	2.79	0.33	2.41	1.06	0.84	0.89	14.98
1989	0.84	0.70	0.90	1.53	2.61	3.19	3.02	2.99	2.12	1.23	1.00	0.76	20.90
Average													
1984 - 1989	0.56	0.53	0.70	1.59	1.86	4.04	2.74	2.75	2.03	1.51	1.27	0.68	20.25

TABLE 119: Selected Seasonal Data for Manitoba

Year	Assiniboine River Entirely Clear of Ice at Winnipeg	Date Wheat Seeding Became General	Wheat Harvest Begun Generally	Ground Frozen So as to Stop General Field Work
1955	April 11	May 20	Aug. 5	Nov. 2
1956	April 26	May 14	Aug. 15	Nov. 10
1957	April 19	May 4	Aug. 15	Nov. 15
1958	April 10	April 22	Aug. 20	Nov. 17
1959	April 15	April 23	Aug. 13	Nov. 3
1960	April 16	May 21	Aug. 19	Nov. 7
1961	April 21	May 15	Aug. 14	Nov. 5
1962	April 26	June 5	Sept. 3	Nov. 15
1963	April 12	June 1	Aug. 10	Nov. 20
1964	April 22	May 18	Aug. 17	Nov. 10
1965	April 16	May 26	Aug. 27	Nov. 7
1966	April 13	May 25	Aug. 23	Nov. 4
1967	April 23	May 20	Aug. 19	Nov. 21
1968	April 12	May 22	Aug. 27	Nov. 7
1969	April 19	May 21	Aug. 26	Nov. 11
1970	April 25	June 2	Aug. 25	Nov. 16
1971	April 19	May 18	Aug. 26	Oct. 30
1972	April 20	May 15	Aug. 29	Oct. 27
1973	April 5	May 10	Aug. 23	Oct. 30
1974	April 20	June 4	Sept. 10	Nov. 18
1975	April 18	May 16	Aug. 21	Nov. 20
1976	April 11	May 11	Aug. 14	Dec. 2
1977	April 12	May 10	Aug. 12	Nov. 22
1978	April 17	May 14	Aug. 31	Nov. 9
1979	April 25	June 7	Sept. 10	Nov. 22
1980	April 2	May 1	Aug. 26	Nov. 26
1981	April 2	May 2	Aug. 25	Nov. 28
1982	April 21	May 10	Aug. 30	Nov. 16
1983	April 7	May 11	Aug. 12	Nov. 17
1984	April 10	May 7	Aug. 9	Nov. 18
1985	April 4	May 5	Aug. 12	Nov. 19
1986	April 7	May 25	Aug. 26	Nov. 6
1987	April 5	May 5	Aug. 8	Nov. 9
1988	April 6	May 3	Aug. 8	Nov. 7
1989	April 8	May 9	Aug. 8	Nov. 16

SOURCES AND METHODS

Preparation of this Yearbook was similar to that used since the series began in 1963. A large percentage of the material presented for the current year is based on preliminary estimates derived from sample data. Revisions of estimates made in previous Yearbooks are included in this report.

The regular statistics program of Manitoba Agriculture is the major source of material for the Yearbook. This involves close cooperation with Statistics Canada and coordination of information from many sources, including Agriculture Canada, other government and private agencies and business firms dealing in farm products and supplies. Farmers contributed through livestock and crop reporting, as did field and other staff members of Manitoba Agriculture. Basic data from Statistics Canada were derived from mail surveys in cooperation with Manitoba Agriculture. Survey samples vary from one percent to ten percent of farmers, depending on the type of information required.

Regional data for crop districts in the Yearbook can be supplemented by more detailed data for municipalities from the 1981 Census of Agriculture. The Census also provides some information on features of agriculture not covered in this Yearbook. Census division and crop district boundaries were changed in 1976 and Statistics Canada's estimates of crop production using the new boundaries were first made in 1977. Thus, small area estimates since 1977 are not comparable with earlier data.

Some figures may not add up due to rounding.

Crops

Total Value of Production. This includes all crops grown on farms in the current year for sale, feed, seed and home consumption at prevailing market prices during the crop year. Disposal of these crops for various uses in the current or subsequent years may have very little effect on the total value. With few exceptions, production value for each crop represents value to the producer.

Prices. Prices used to calculate production value for most crops are those farmers receive at the shipping point. This is regarded as farm value because freight, handling and other marketing charges are deducted. Transport costs incurred by farmers in delivering grain to elevators are included with farm expenses. Average prices for all crops are estimated final prices, based on Manitoba Agriculture market outlook work. As a result, production value is more comparable with previous years, since initial payments would grossly underestimate crop value. Prices are subject to revision after all relevant sales and payments have been made. Small revisions will be necessary in current prices of crops when more information on sales and payments is available.

Areas. Major crops areas are estimated by Statistics Canada in cooperation with Manitoba Agriculture. Minor crops, such as sugar beets, sunflowers and mustard seed, are estimated through contacts with dealers, processors and Department field staff. Estimates, in most cases, are for seeded area while yields are reported on the land devoted to a crop at seeding time. Oats and barley are on a harvested area basis. The November estimate (Statistics Canada 22-002) contains latest area and yield estimates, with a few exceptions as noted.

Yields. Major crop yields are derived from Statistics Canada surveys, integrated with the Manitoba crop reporting program. Minor crops are estimated mainly through the latter and revised as market data require. In some cases, yield multiplied by area may not exactly equal production, due to the rounding of one or more of the three items.

Wheat. Quality data on protein content are obtained from the Canadian Grain Commission. Distribution by grade is based on Wheat Board Special Questionnaire No. 1, November when elevator agents estimate the amounts of deliverable grain in each grade. Initial payments to producers are reported by the Wheat Board. Thunder Bay selling prices are recorded by the Canadian Grain Commission. Prices listed are rounded to the nearest cent while marketing data are provided by the Canadian Grain Commission. Such data are also published by Statistics Canada in Coarse Grains Quarterly and Wheat Review.

Oats and Barley. Distribution by grades and initial payments have the same sources as wheat. Since private firms, in addition to the Wheat Board, sell these grains, Lakehead selling prices are Winnipeg Commodity Exchange cash quotations. Final prices are more closely represented than the Wheat Board selling price alone. Marketing data are from the same sources as wheat.

Flaxseed, Canola (rapeseed) and Other Crops. These were treated, for the most part, similarly to the above. Regional data were not always available but verbal description was used when possible. Sugar beets are on a harvested area basis. Values are at the factory level, obtained from the Manitoba Sugar Company, except for the current crop which is estimated. Deduction of freight would not allow the remaining figure to properly indicate the actual sugar beet price, as it would vary considerably depending on the farm location. Forage seed data are from Plant Products Division, Agriculture Canada and the forage specialist, Manitoba Agriculture.

Horticultural Crops. Included are vegetables, potatoes, fruit and ornamentals. The commercial vegetable area and prices are estimated jointly by Statistics Canada and Manitoba Agriculture. An estimate of minor crops, such as peppers, eggplants, vine and specialty crops, is included in the value of vegetable production. Value of noncommercial vegetables represents the value of home-grown vegetables in the province. The processing potato area was obtained from the processors.

Different levels of prices were used with respect to processing, fresh market and farm-consumed potatoes to arrive at the total value. Other horticultural values, including fruit and ornamentals, are derived also in consultation with the provincial horticulturists.

In addition to the major crops listed, production of field beans, fababeans, canary grass seed and lentils also took place.

Sugar beet production value estimates for the current year are based on the per unit value of product sold to date and does not include a final payment to be made when the entire crop has been sold.

Livestock

Production value of cattle and hogs includes inventory change. A gain in numbers on farms is a part of production but a decline during the year is a loss in production. Inventory figures are from Statistics Canada surveys. Animals in the category "local slaughterings" are those farmers kill and eat, kill and sell, or sell locally for slaughter and consumption. These animals, as well as commercial marketings, are a part of production. Inshipments are those animals (1) returned to farms for further feeding after being marketed from other Manitoba farms or (2) brought in from other provinces, usually Saskatchewan. To avoid double counting in the value of production, inshipments are deducted. Commercial marketings include direct exports to other provinces and the United States, of animals which do not go through the stockyards but are of Manitoba origin.

Total values of all classes of livestock marketed were estimated from Agriculture Canada's publication "Canada Livestock and Meat Trade Report". From these figures the dollar value per animal, less marketing costs, is calculated and applied to animals produced.

Market and Quality. Data for cattle and hogs are obtained principally from Agriculture Canada's publication "Canada Livestock and Meat Trade Report". Prices are from the same Department and pertain to Stockyard sales, upon which the value of all marketings is based. Calves are defined, generally, as under one year of age or 249 kilograms (550 pounds).

Sheep. Sources are the same as those for cattle and hogs. Production calculation is based on marketings only, due to the small number involved. Wool sources are from Statistics Canada's publications 23-203, 23-204 and 23-205.

Dairy. Production figures are obtained from Statistics Canada, primarily publication 23-001. Production values and itemization were supplied by the Agricultural Division of Statistics Canada. The supplementary payments were not allocated to the different classes of milk but were added in the total value of dairy production.

Poultry. Inventory figures are from the same source as other livestock. Monthly prices are the average of recorded weekly prices from Agriculture Canada. Production values for eggs were obtained from Statistics Canada, publication 23-003. The value of hatching eggs was estimated by Manitoba Agriculture. Statistics on Manitoba egg quota allocation and inventory are obtained from the Tenth Annual Producers Conference Report, Canadian Egg Marketing Agency.

Broiler production was calculated on the basis of registered marketings. Roasting chickens were calculated according to placements as indicated by Agriculture Canada's Hatchery Outlook publication and allowing for a ten percent mortality figure. Broiler turkeys are listed equal to registered marketings of turkeys, 4.5359 kilograms and under (ten pounds and under), and roasting birds are estimated according to marketings and other information. Ducks are listed according to marketings plus an on-farm allowance. Geese are shown according to marketings, exports and Agriculture Canada survey data. Poultry meat prices are calculated per bird according to average weights and information on recorded prices by Agriculture Canada.

Other Products

Honey. Production estimates are made cooperatively by Statistics Canada and Manitoba Agriculture.

Fur. Data are obtained from Statistics Canada's publication 23-207. They cover only production from fur farms.

Forest. Products are those listed as sales in Statistics Canada farm income estimates.

Resources

Most resource information for Census years are from Statistics Canada, Census Division. Annual summerfallow estimates since 1976 are made cooperatively by Statistics Canada and Manitoba Agriculture.

Farm Numbers. These are taken from the Census according to the current definition of a farm. In 1966 and 1971, a farm was defined as an agricultural holding of 0.40469 hectares (one acre) or more with sales during the previous twelve months of $50.00 or more. Previous definitions were less restrictive. The 1981 Census definition is an agricultural holding with sales of agricultural products during the past twelve months of $250.00 or more. Farm estimates for intervening years are unofficial estimates by Manitoba Agriculture.

Labour Force. Statistics are from the Labour Census, Statistics Canada 94-921 and the 1981 Census of Agriculture 96-908. Wage rates in August come from Statistics Canada.

Cash and Overhead Expenses. These data are taken from Farm Operating Expenses and Depreciation Charges published in Statistics Canada's Farm Net Income publication 21-202.

Machinery. Sales data are from the Canadian Farm and Industrial Equipment Institute.

Fertilizer. Sales data are from the Western Canada Fertilizer Association.

Herbicide. Data are obtained from annual Manitoba Agriculture surveys in contact with wholesalers and manufacturers.

Price Index of Purchases by Farmers. These data come from Statistics Canada's publication 62-002, rounded to the nearest whole number. The indices were revised to 1971 and the base year changed from 1961 to 1971.

Land Values

Data were obtained from the records of land sales in Manitoba collected by the Manitoba Agricultural Lands Protection Board.

Income

Cash and net farm income data on a provincial basis are obtained from Statistics Canada publications. Statistics Canada's publication 21-202 (latest available issue) is the source for total cash income. The main source for farm cash details is Statistics Canada's publication 21-001 (latest available issue).

Calculations on a per farm basis are made by Manitoba Agriculture and may not truly reflect exact averages. Census farms, as a basis, are not the only contributors to total sales. Small units, not called farms, do sell produce but are almost negligible. Per farm figures are rounded to the nearest $100.00. The price index of farm products is obtained from Statistics Canada's publication 62-003, rounded to the nearest whole number and approximated for the current year. Current-year indices are subject to under-representation since they are based on initial prices for grains.

Agriculture in Perspective

Description in relation to Canada makes use of data with the same sources as similar material throughout the Yearbook for Manitoba.

Weather Data

These are obtained on a regular basis for Manitoba Agriculture Reporting Program from the Environment Canada, Atmospheric Environment Service, Room 1000, 266 Graham Avenue, Winnipeg, Manitoba.

Metric Conversion Factors

1 acre = 0.40469 hectares
1 pound = 0.45359 kilograms
1 ounce = 28.35 grams
1 Imperial ton = 0.907185 tonnes
1 Imperial bushel = 0.036368 cubic metres
1 Imperial gallon = 4.546 litres
1 Imperial fluid ounce = 28.413 millilitres
1 foot = 0.3048 metres
1 inch = 2.54 centimetres
°C (Celsius) = 5/9 (°Fahrenheit - 32)